MANITOBA

ANNUAL REPORT

1981 - 82

The Department of
Highways and
Transportation

MANITOBA
HIGHWAYS
AND
TRANSPORTATION

ANNUAL REPORT 1981 · 1982

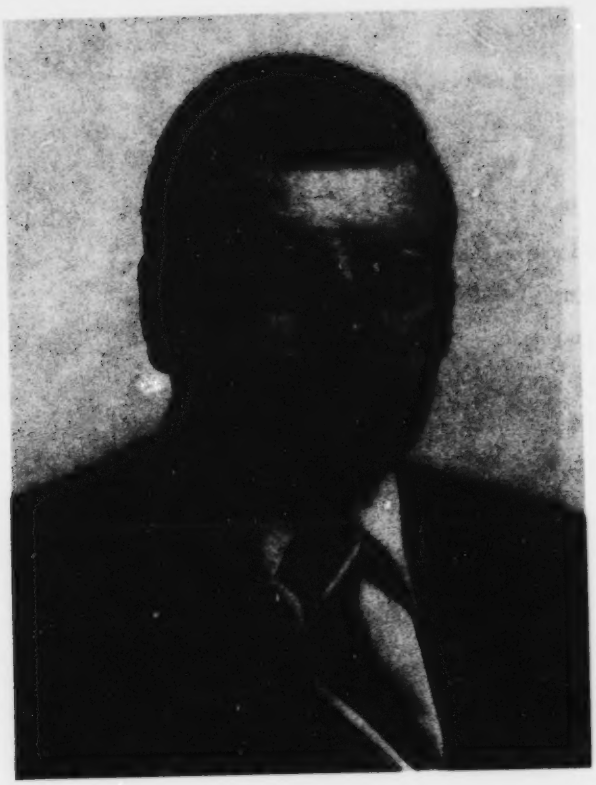
SAMUEL USKIW
Minister of Highways and Transportation

MESSAGE FROM THE HONOURABLE SAMUEL USKIW

On presenting the 1981-82 Annual Report, I would like to take this opportunity to both commend and thank the Departmental staff and the construction industry for their continued hard work and co-operation which has resulted in another successful construction season. The motoring public will continue to use an improved and safely designed provincial road system due to these combined efforts.

Intervention by the Department on behalf of Manitobans in the field of rail, passenger and freight policy complement the efforts of the construction and maintenance program in providing Manitoba with an efficient and effective transportation infrastructure and system. Efforts by the Department in the area of energy conservation are assisting Manitobans to reduce transportation energy costs.

The Department continues to pay a vital role in ensuring that the transportation needs of the Manitoba economy are met.



J.W.E. BRAKO, P.ENG.
Deputy Minister of Highways and Transportation

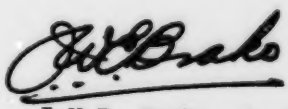
TO THE HONOURABLE MINISTER OF HIGHWAYS AND TRANSPORTATION

I am pleased to present the Annual Report which sets out the details of the Department of Highways and Transportation activities during the fiscal year which ended on March 31, 1982. This document fulfils the reporting requirements of the Highways Department Act.

Since both the Provincial Trunk Highway and Provincial Road System are fairly well established, the major highway expenditures are now required to keep the existing 11,696 miles in good operating order through maintenance, re-building and upgrading. Mileage is, however, added for two reasons, first to open new territory as the new road from Thompson to Gillam is doing, and second to handle traffic increases as in the extra lanes constructed from the Trans Canada at Ste. Anne to Steinbach.

You will find in the report descriptions of the work of the many sections of the Department which illustrate the broad variety of activities in the Transportation field. The descriptions are appropriately supported by statistical data.

Respectfully Submitted



J.W.E. Brako, P. Eng.,
Deputy Minister

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ABBREVIATION

A.C.	-	asphalt cement
Bdry.	-	boundary
CP Railway	-	Canadian Pacific Railway
C.F.	-	cable ferry
CMP	-	corrugated metal pipe
CT	-	commerical truck
CR.	-	credit
CWT	-	hunderdweight
Dist.	-	district
E.	-	east
E.D.	-	Electorial Division
HPS	-	high pressure sodium
H.F. (SSB)	-	high frequency (single side band)
Jct.	-	junction
Lbs.	-	pounds
L.F.	-	linear foot
L.G.D.	-	Local Government District
M.fbm	-	thousand foot board measurement
M.V.	-	motor vessel
N.	-	north
N.E. 1/4	-	northeast quarter section
No.	-	number
Prov.	-	province or provincial
P.R.	-	Provincial Road
P.T.H.	-	Provincial Trunk Highway
P.S.V.	-	public service vehicle
Rec.	-	recreational
R.L.	-	river lot
R.T.A.C.	-	Roads and Transportation Association of Canada
R.C.M.P.	-	Royal Canadian Mounted Police
R.M.	-	Rural Municipality
Sec.34-24-12W.	-	Section, Township, Range, West
S.	-	south
S.P.C.M.P.	-	structural plate corrugated metal pipe
sq.ft.	-	square feet
T.C.H.	-	Trans Canada Highway
T.T.	-	treated timber
U.V.D.	-	Unincorporated Village District
U.S.	-	United States of America
V.H.F. (F.M)	-	very high frequency (frequency modulation)
V.H.F. (A.M)	-	very high frequency (amplitude modulation)
W.	-	west

Table No. 1

SUMMARY OF GROSS EXPENDITURES

Administration and Subsidiary	$ 21,007,039.76
Aids	4,600,825.74
Construction	96,390,000.00
Maintenance	39,299,916.96
Mechanical Division	1,466,870.52
Warehouse Stores	578,685.94
Motor Vehicle Branch	12,664,514.78
Miscellaneous	7,885,610.22
Air and Radio Services	4,115,207.50
Winter Truck Roads	2,011,951.95
	$190,020,623.37

Table No. 1(a)

ADMINISTRATION AND SUBSIDIARY EXPENDITURES

APPROPRIATION	DIVISION	AMOUNT
15-1A & B	Administration	$ 1,534,185.78
15-1C	Computer Services	448,510.88
15-1D-1	Transportation Division	767,999.57
15-1E-1	Communication Branch	132,538.88
15-2A	Operations & Contracts	1,037,285.19
15-2B	Laboratory	1,101,398.78
15-2C	Surveys & Titles	712,049.78
15-2D	Bridge Office	1,175,452.62
15-2E	Traffic Section	304,495.18
15-2F	District Offices	6,714,320.97
15-2G	Traffic Inspection	1,469,579.70
15-3A & B	Planning & Design	1,544,162.70
15-4D-1	Airports Operations & Maintenance	1,634,167.31
15-4E	Marine Services	697,656.40
15-7	Transportation Services	1,733,236.02
		$21,007,039.76

AIDS TO CITIES, TOWNS, VILLAGES AND UNINCORPORATED VILLAGES AND WORK IN UNORGANIZED TERRITORY APPROPRIATION 15-8

PURPOSE	AMOUNT
Aids to Cities, Towns, Villages and Unincorporated Villages	$1,380,440.83
Grant equal to 50% of the cost of approved street construction projects.	
Work in Unorganized Territory and Disorganized Municipalities	3,179,974.91
Acitivity provides for construction and maintenance in Unorganized Territory on 50/50% or 100% basis depending on category of road.	
Grant-Innovative Urban Transportation	40,410.00
Grant for the Transportation of the Handicapped	
TOTAL	$4,600,825.74

Table No. 1(c)

CONSTRUCTION

APPROPRIATION	PURPOSE	AMOUNT
15-6A	Trans-Canada Highway	$ 3,516,057.59
	Provincial Trunk Highways	17,627,871.66
	Provincial Roads	42,529,505.51
	Northern Roads	11,719,470.13
	Highway Strengthening	20,997,095.11
		$96,390,000.00

Table No. 1(d)

MAINTENANCE

APPROPRIATION	PURPOSE	AMOUNT
15-4A	General Maintenance on Provincial Trunk Highways	$12,433,717.78
	General Maintenance on Provincial Roads	17,017,993.82
	Miscellaneous Expenditures	
	Overheads	4,519,018.93
	Vacation & Sick Leave	1,814,437.40
	Traffic Control	3,043,157.64
	Maintenance Management	167,427.78
	Ferries	21,000.00
	Personnel Safety	36,698.53
	Maintenance Materials Holding Account	207,717.75
	Services Rendered by Land Acquisition Branch	38,747.33
		$39,299,916.96

Table No. 1(e)

MECHANICAL DIVISION
APPROPRIATION 15-4B

Unit Costs		Total
Operating Costs	15,305,133.03	
Machine Rentals	14,012,850.51CR.	$1,292,282.52
Equipment & Tools		41,667.84
Building & Storage Yards		132,920.16
		$1,466,870.52

Table No. 1(f)

WAREHOUSE STORES
APPROPRIATION 15-4C

		Total
Purchases	$4,480,280.50	
Recoveries	4,278,718.91	$201,561.59
Expenditures		377,124.35
		$578,685.94

MOTOR VEHICLE BRANCH
APPROPRIATION 15-9

APPROPRIATION	PURPOSE	AMOUNT
15-9A	Management Services	$ 2,234,985.76
15-9B	Driver Licencing and Vehicle Registration	5,926,481.52
15-9C	Safety	3,819,423.21
15-9D	Highway Traffic Board Highway Transport Board Taxicab Board and Licence Suspension Appeal Board	683,624.29
		$12,664,514.78

MISCELLANEOUS EXPENDITURES

APPROPRIATION	PURPOSE	AMOUNT
15-5B	Maintenance & Construction Projects - Other Jurisdiction Accounts Collectable	$5,514,977.38
15-5D	Harrison, Grant	3,730.27
15-8C-2	Gravel Exploration	99,775.33
15-8C-3	Mechanical Division Equipment	850,000.00
15-8C-4	Water Bomber Contract	147,122.00
15-8C-5	Equipment Storage Buildings	315,253.38
15-8C-6	Improvements to Weigh Scales	43,401.73
15-8F	Purchase Crushed Gravel	288,602.91
15-8G	Bridge Timbers	601,635.93
15-8H	Land	21,111.29
		$7,885,610.22

AIR AND RADIO SERVICES, AIRPORT OPERATIONS AND MAINTENANCE, MARINE SERVICES

APPROPRIATION	PURPOSE	AMOUNT
15-4D-2	Other Expenditure	$ 829,403.56
15-8C-1	Minor Improvements to Airports	210,824.85
15-8D-1	Minor Improvements to Airports (Recoverable from Northern Affairs)	1,124,195.78
15-8D-2	Resource Roads (Recoverable from Northern Affairs)	380,451.21
15-8D-4	Community Roads (Recoverable from Northern Affairs)	1,093,119.15
15-8D-7	Community Roads (Recoverable from Northern Affairs)	86,685.31
15-8D-8	Thompson - Split Lake Road (Recoverable from Northern Affairs)	390,527.64
		$4,115,207.50

WINTER TRUCK ROADS, CONSTRUCTION AND MAINTENANCE

APPROPRIATION	PURPOSE	AMOUNT
15-8B-1	Winter Truck Roads	$ 605,073.27
15-8B-2	Winter Truck Roads	1,406,878.68
		$2,011,951.95

CONSTRUCTION

Tables numbered 2 to 8 provide information as to the location, type, size and cost of individual construction projects. The projects are divided by appropriation and into the categories Provincial Trunk Highways, Provincial Roads and Trans Canada Highway.

The construction program is carried out mainly by means of private contractors. The work is awarded on a strictly controlled tendering system. This year 170 separate formal contracts were awarded for bridge and road work and the contract value totalled $54.44 million dollars.

Smaller jobs are done by informal contracts called Construction Orders. There were 170 Construction Orders for $5.73 million of work.

Highlights of the construction season included:

1. Clearing and grading 79 miles of highway through virgin territory to Gillam in northern Manitoba. The winter phase of this work is 80% completed.

2. Reconstruction of P.T.H. No. 10 through rough rock country north of Cranberry Portage. The 4.9 miles cost an average of over $600,000 per mile for a total project cost of $3.7 million.

3. At the junction of P.T.H. No. 12 and P.T.H. No. 1 near Ste. Anne construction started on a major traffic interchange and highway relocation.

Table No. 2

HIGHWAY CONSTRUCTION
MILES OF WORK COMPLETED
VARIOUS APPROPRIATIONS

	Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Asphalt Surface Treatment	Seal Coat	Calcium Chloride	Concrete
Trans Canada Highway 15-6A	0.9	0.9	9.2	9.2	-	19.0	-	-
Provincial Trunk Highways 15-6A	11.4	33.1	15.3	46.2	8.0	36.5	13.3	-
Provincial Roads 15-6A	329.2	303.3	153.3	36.4	125.9	1.9	127.6	-
Northern Roads 15-6A	124.0	118.9	63.8	73.0	35.6	-	229.1	-
Highway Strengthening Agreement 15-6B & 15-6A	48.9	25.8	79.3	86.5	-	-	-	-
Provincial Highways 15-4A, Contingencies, Special Projects & Stop Gap	-	-	-	-	-	-	-	-
	514.4	482.0	320.9	251.3	169.5	57.4	370.0	-

Trans Canada Highway West of Brandon

Table No. 3

HIGHWAY CONSTRUCTION
TRANS-CANADA HIGHWAY
APPROPRIATION 15-6A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Trans Canada Highway	MB58	Sealcoating, E. of P.R. No. 506 West Junction - Brokenhead River, L.G.D. of Reynolds	19.0				19.0 (Seal Coat)		$148,085.26
	MC59	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 100 - Plessis Road Connection, R.M. of Springfield	2.3						16,304.46
	MD01	Install Illumination, Jct. P.T.H. No. 13, R.M. of Portage la Prairie							16,060.00
	MD98	Illumination Modification, Intersection P.R. No. 240, R.M. of Portage la Prairie							5,485.00
	ME52	Traffic Signals, Jct. P.T.H. No. 16, R.M. of Portage la Prairie							6,303.54

Table No. 3

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Trans Canada Highway	MF27	Purchase of Right-of-Way & Landscaping, Sidney - Brandon, R.M. of Elton & Cornwallis	12.4						$ 61,810.07
	MG40	Preliminary Engineering & Purchase of Right-of-Way, Alexander - P.T.H. No. 21, R.M. of Whitehead & Sifton	9.5						269,042.66
	MG41	Preliminary Engineering, Purchase of Right-of-Way & Utilities, Kemnay - Alexander, R.M. of Whitehead	9.0						22,916.41
	MG44	Preliminary Engineering, P.T.H. No. 21 - P.R. No. 259, R.M. of Sifton & Wallace	23.6						3,131.97
	MG46	Grading & Gravelling Kemnay Westerly, R.M. of Whitehead	5.4						13,597.90
	MG47	Grading & Gravelling, Vicinity of Alexander, R.M. of Whitehead	4.3						11,317.99
	MG48	Intersection Improvements, Jct. King St. - Virden, Town of Virden	0.2						57,862.40

Table No. 3

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
Trans Canada Highway	MG49	Base Course & Bituminous Pavement, Kemnay - Alexander, R.M. of Whitehead	10.4			9.2	9.2		$2,469,321.62
	MG50	Modify Illumination, Town of Virden, R.M. of Wallace							96,001.00
	MG51	Preliminary Engineering, West Jct. P.T.H. No. 1A Easterly, R.M. of Whitehead	3.4						21,242.20
	MW01	Grading & Slope Stabilization, N.W. Quadrant, Letellier Overpass, City of Winnipeg							31,170.16
	MW86	Access Control Measures, Portage Ave. - Wilkes Ave., City of Winnipeg							1,930.60
	MW90	Traffic Signals, Intersection P.T.H. No. 3, R.M. of Macdonald							13,048.11
	MW92	Preliminary Engineering, St. Mary's Road - Waverly St. & Interchange at P.T.H. No. 75, City of Winnipeg	3.0						10,556.48

Table No. 3

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Trans Canada Highway	MW94	Median Treatment Study, St. Marys Road - Saskatchewan Ave., City of Winnipeg & R.M. of Macdonald	18.5						$ 12,481.67
	MW96	Manufacture & Install Guide Signs, Jct. of P.T.H. No. 3, R.M. of Macdonald							41,157.01
	MW98	Grading, Gravelling & Asphalt Surface Treatment, Roblin Blvd. Interchange	0.9	0.9	0.9				82,422.59
100 & 101	MW97	Supply & Install Overhead Sign Structures, Various Locations							40,814.39
100 & 427	MW95	Grading & Bituminous Surfacing, Traffic Interchange, City of Winnipeg							45,225.99

Table No. 3

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
100 & 427	MW99	Manufacture & Install Guide Signs, Wilkes Interchange, City of Winnipeg							$ 18,768.11
				0.9	0.9	9.2	*28.2		$3,516,057.59

* Bituminous Surfacing 9.2
Seal Coat 19.0
28.2

Table No. 4

HIGHWAY CONSTRUCTION
PROVINCIAL TRUNK HIGHWAY
APPROPRIATION 15-6A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
1 & 10	7110	Upgrade Traffic Signals, Jct. P.T.H. No. 1 , 1A & 10, City of Brandon							$ 5,138.42
1A	7043	Preliminary Engineering, Purchase of Right-of-Way & Utilities, 22nd Street West - West Interchange, R.M. of Portage la Prairie	1.0						80,707.50
	7076	Bituminous Pavement, Victoria Avenue, 2nd Street - 9th Street, City of Brandon	0.4			0.2	0.2		276,897.64
	7128	Grading & Gravelling, C.P.R. Railway Track - West Interchange, City of Portage la Prairie & R.M. of Portage la Prairie	1.6	1.6	1.6				514,033.90

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravel-ling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
1A	7145	Modify Traffic Signals, Saskatchewan Avenue & 8th Avenue West, City of Portage la Prairie							$ 5,122.80
	7154	Preliminary Engineering, Saskatchewan Avenue, R.M. of Portage la Prairie	0.6						48,159.62
2	7075	Preliminary Engineering, P.R. No. 342 - P.T.H. No. 18, R.M. of South Cypress	24.1						8,422.65
	7082	Purchase of Right-of-Way, P.R. No. 244 - W. Boundary, R.M. of South Norfolk	10.8						996.57
	7116	Sealcoating, Jct. P.T.H. No. 83 - Saskatchewan Bdry., R.M. of Pipestone	21.0				21.0 (Seal Coat)		131,946.56
3	7079	Preliminary Engineering, N. Jct. P.T.H. No. 18 - P.T.H. No. 10, R.M. of Turtle Mountain & Morton	18.4						26,185.72

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
3	7136	Install Traffic Signals, Junction P.T.H. No. 3, 13 & P.R. No. 245, Town of Carman							$ 55,807.28
3 & 14	7083	Preliminary Engineering, East of P.T.H. No. 32 - West Limit of Morden, R.M. of Stanley	9.2						17,835.51
5	7059	Preliminary Engineering, Purchase of Right-of-Way & Utilities, West of Grandview - P.R. No. 584, R.M. of Grandview & Hillsburg	12.9						152,501.37
	7061	Bridge Approaches, Valley River Bridge, R.M. of Grandview	1.5						149,547.04
	7062	Grade Widening & Shoulder Gravel, East Grandview, R.M. of Grandview & Gilbert Plains	10.0						1,419.68
	7077	Grading & Gravelling P.T.H. No. 1 - South of Carberry, R.M. of North Cypress	4.5	2.2	2.2				92,159.33

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
7	7042	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 517 - P.R. No. 228, R.M. of Rockwood	9.2						$ 3,164.99
	7045	Preliminary Engineering, P.R. No. 228 - P.R. No. 229, R.M. of Rockwood	8.8						5,387.94
	7047	Grading & Gravelling, North of P.T.H. No. 67, R.M. of Rockwood	6.7						10,332.25
	7055	Concrete Pavement, P.T.H. No. 101 - N. of Stoney Mountain, R.M. of Rosser & Rockwood	8.8						99,304.81
	7056	Base Course & Concrete Pavement, Grassmere Creek - North P.T.H. No. 67, R.M. of Rosser & Rockwood	7.7						80,927.49
	7088	Preliminary Engineering, P.R. No. 229 - North Junction P.R. No. 231, L.G.D. of Armstrong	11.2						753.30

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
5	7096	Grade Widening, South of Neepawa, R.M. of Langford	6.2						$ 1,855.67
	7098	Base Course & Asphalt Surface Treatment, Valley River Bridge Approaches, R.M. of Grandview	1.5			1.5	1.5 (Asphalt Surface Treatment)		271,918.64
5 & 10	7060	Preliminary Engineering, Purchase of Right-of-Way & Utilities, 2nd Street S.W. - Westerly, Town of Dauphin & R.M. of Dauphin	10.8						2,987.00
6	7148	Preliminary Engineering, Gypsumville - Grand Rapids, Unorganized Territory	20.0						40,751.19
7	7041	Preliminary Engineering, Purchase of Right-of-Way & Utilities, North of P.T.H. No. 67 - P.R. No. 517, R.M. of Rockwood	6.8						2,529.95

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
7	7122	Bituminous Pavement, North of P.T.H. No. 67, R.M. of Rockwood	6.7				6.7		$1,058,104.47
	7131	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 101 - North of P.T.H. No. 67, R.M. of Rosser & Rockwood	11.8						138,414.37
8	7108	Completion of Grading, Base Course & Concrete Pavement, Parks Creek North, R.M. of St. Andrews	3.1						26,843.71
9	7100	Completion of Grading, Base Course & Concrete Pavement, Vicinity of Lower Fort Garry, R.M. of St. Andrews	2.2						2,639.38
	7120	Traffic Signal, Minnehaha Avenue, R.M. of West St. Paul							3,911.29
9 & 27	7103	Bituminous Surfacing, Selkirk Area, R.M. of St. Andrews & Town of Selkirk	6.6						7,652.22

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
9A	7093	Modify Traffic Signals, Main Street & Stathnaver Ave., Town of Selkirk							$ 9,629.11
	7094	Modify Traffic Signals Main Street & Manitoba Ave., Town of Selkirk							6,812.51
	7133	Traffic Signals, Main Street & Manchester Ave., Town of Selkirk							36,525.75
10	7063	Preliminary Engineering, Purchase of Right-of-Way, & Utilities, North of Riding Mountain National Park - South Jct. P.T.H. No. 5, R.M. of Dauphin	2.9						4,000.33
	7095	Traffic Signals, Boam Avenue, City of Flin Flon							933.47
	7130	Pedestrian Corridor, Main Street & 2nd Avenue, City of Flin Flon							14,560.26

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
11	7101	Purchase of Right-of-Way & Utilities, P.R. No. 506 - P.T.H. No. 44, R.M. of Whitemouth	9.8						$ 9,565.42
	7105	Preliminary Engineering & Purchase of Right-of-Way, North of P.T.H. No. 44 - P.R. No. 313, R.M. of Lac du Bonnet, Whitemouth & L.G.D. of Pinawa	16.3						31,375.18
	7106	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 313 - McArthur Falls, R.M. of Lac du Bonnet	8.7						293.40
	7107	Base Course & Bituminous Pavement, P.T.H. No. 44 - P.R. No. 214, R.M. of Whitemouth, Lac du Bonnet & L.G.D. of Reynolds	11.6						2,426.51
	7129	Grading, Rock Embankment & Bituminous Surfacing, U.V.D. of Elma, R.M. of Whitemouth	0.3	0.3			0.3		456,193.84

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
12	7033	Completion of Grading, Steinbach - Seine River Diversion, R.M. of Hanover, Ste. Anne & Town of Steinbach	8.8						$ 81,428.94
	7036	Completion of Preliminary Engineering & Purchase of Right-of-Way, North of Seine River Diversion - P.T.H. No. 1, R.M. of Ste. Anne, Tache & Village of Ste. Anne	4.2						90,765.51
	7037	Preliminary Engineering, North of P.T.H. No. 1 - North Boundary, R.M. of Tache	6.0						5,971.07
	7038	Grading, Village of Ste. Anne & R.M. of Ste. Anne	2.2						823,119.06
	7102	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 317 - P.R. No. 304, R.M. of St. Clements	10.9						2,922.52
	7137	Pedestrian Corridor, 1st Street South, Town of Steinbach							8,575.89

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
12	7157	Automatic Railroad Crossing Protection, Greater Winnipeg Water District, R.M. of Springfield							$ 8,785.71
13	7048	Completion of Bituminous Pavement & Gravel Base Shoulders, South Boundary District 6 Northerly, R.M. of Portage la Prairie	2.0				0.9		116,086.44
	7078	Bituminous Pavement & Gravel Base Course Shoulders, P.T.H. No. 3 - North Bdry. R.M. of Grey, R.M. of Dufferin & Grey	20.5				9.0		1,193,647.99
14	7089	Base Course & Bituminous Pavement, Winkler - Rosenfeld, R.M. of Stanley & Rhineland	16.8			1.3	1.3		455,078.15
	7099	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 30 - P.T.H. No. 75, R.M. of Rhineland & Montcalm	10.0						257.95

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
16	7149	Preliminary Engineering, W. Jct. P.T.H. No. 5 - S. Jct. P.T.H. No. 10, Town of Neepawa, R.M. of Langford & Odanah	17.5						$ 23,506.95
	7156	Stockpiling Seal Coat Aggregate, P.T.H. No. 50 - East of Gladstone, R.M. of Westbourne	12.7						29,096.02
16, 83 & 42	7115	Sealcoating, Shoal Lake - Foxwarren, R.M. of Shoal Lake & Birtle							238,905.20
19	7127	Calcium Chloride Treatment, P.T.H. No. 5 - West, R.M. of McCreary	3.0				3.0 (Calcium Chloride Treatment)		6,844.63
20	7064	Bridge Approaches, N.E. Corner of Sec. 35-26-19W., R.M. of Dauphin	0.2						69,838.18

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
20	7081	Base Course & Asphalt Surface Treatment, P.R. No. 272 - Westerly, L.G.D. of Mountain	7.5						$ 1,427.36
	7113	Base Course & Asphalt Surface Treatment, West of P.R. No. 272 - East of P.T.H. No. 10, L.G.D. of Mountain	7.6			6.5	6.5 (Asphalt Surface Treatment)		745,304.25
	7114	Sealcoating, Fork River Access - P.R. No. 364, R.M. of Mossey River	10.0				7.5 (Seal Coat)		73,616.46
	7132	Calcium Chloride, P.T.H. No. 10, L.G.D. of Mountain	8.0				8.0 (Calcium Chloride Treatment)		15,664.87
22	7123	Intersection Improvement, E. of Souris River Bridge & Struggle Avenue, Town of Souris	0.2						57,494.51

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
23	7084	Preliminary Engineering, Deerwood - P.R. No. 431, R.M. of Thompson & Lorne	9.1						$ 8,751.99
30	7085	Base Course & Bituminous Pavement, U.S.A. Boundary - Altona, R.M. of Rhineland	7.0			5.8	5.8		1,877,128.30
41	7073	Purchase of Right-of-Way, P.R. No. 545 - Assiniboine River, R.M. of Ellice	2.7						43,252.46
	7117	Calcium Chloride Treatment, Assiniboine River - P.R. No. 545, R.M. of Ellice	2.3				2.3 (Calcium Chloride Treatment)		4,804.86
	7139	Installation Water Supply, NW $\frac{1}{4}$ Sec. 9-17-28W., R.M. of Ellice							675.00
44	7097	Preliminary Engineering, West Hawk Lake - P.R. No. 307 Whiteshell Provincial Park	19.4						13,917.45

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
50	7044	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 16 - Langruth, R.M. of Westbourne & Lakeview	15.8						$ 158,895.62
	7066	Shoulder Widening & Gravelling, South Boundary L.G.D. of Alonsa - P.R. No. 278, L.G.D. of Alonsa	22.7						12,988.75
	7111	Preliminary Engineering, P.R. No. 265 - N. Bdry of Lakeview, R.M. of Lakeview	8.3						32,287.74
59	7086	Bituminous Repairs & Sealcoating, P.T.H. No. 59 - P.R. No. 205, R.M. of DeSalaberry	8.0				8.0 (Seal Coat)		61,731.12
	7109	Purchase of Right-of-Way, P.T.H. No. 44 - N. of Libau, R.M. of St. Clements	15.9						46,910.18
	7143	Illumination Modifications, Birds Hill Park Access, R.M. of Springfield							18,387.00

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
59	7146	Install Illumination, Jct. P.R. No. 212, R.M. of St. Clements							$ 2,236.00
67	7046	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 7 - South Jct. P.R. No. 236, R.M. of Rockwood & Town of Stonewall	4.0						2,853.05
75	7035	Preliminary Engineering, Ste. Agathe - P.R. No. 429, R.M. of Ritchot	8.0						20,424.94
	7058	Preliminary Engineering & Purchase of Right-of-Way, City of Winnipeg Bdry. - P.R. No. 429, R.M. of Ritchot	5.0						521,985.90
	7150	Grading, Base Course & Bituminous Pavement, 2nd Street & 5th Street, Town of Emerson							14,366.55

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
83	7040	Intersection Improvements, Junction of Main Street, Town of Swan River							$ 225,992.71
	7067	Bituminous Pavement & Shoulder Gravel, South of P.R. No. 482 - South Jct. P.T.H. No. 5, R.M. of Shellmouth & Shell River	22.0		22.0		22.0		2,029,470.75
	7068	Bituminous Pavement, South Trans Canada Highway, R.M. of Pipestone & Wallace	9.6						513,394.05
	7069	Preliminary Engineering, P.T.H. No. 24 South, R.M. of Miniota	5.8						4,900.00
	7090	Purchase of Right-of-Way & Utilities, P.T.H. No. 1 Southerly, R.M. of Wallace & Pipestone	23.3						6,055.85
	7152	Culvert Installation, E. of S.E. $\frac{1}{4}$ Sec. 8-2-27W., R.M. of Arthur							19,455.78

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
83 & 49	7039	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 49 - Swan River, R.M. of Swan River	26.0						$ 190,555.15
	7087	Grade Widening & Shoulder Gravel, Saskatchewan Bdry. - South of Kenville, R.M. of Swan River	13.5	7.3	7.3				824,228.63
101	7057	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 7 Interchange, R.M. of Rosser							373,724.04
	7091	Install Illumination, Jct. P.R. No. 409, R.M. of West St. Paul							3,480.00
	7112	Modify Traffic Signals, Assiniboia Downs East Access, City of Winnipeg							1,275.71
	7140	Manufacture & Install Guide Signs, Intersection with P.R. No. 204, R.M. of East St. Paul							20,486.50

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
101 & 425	7153	Intersection Improvements, P.R. No. 425 & P.T.H. No. 101, City of Winnipeg							$ 51,800.29
Miscellaneous									
	7000	Purchase of Right-of-Way, Various Highways							39,530.30
	7001	Engineering Expenses - District 1							10,207.88
	7002	Engineering Expenses - District 2							26,409.97
	7003	Engineering Expenses - District 3							27,321.54
	7004	Engineering Expenses - District 4							5,956.66
	7005	Engineering Expenses - District 5							20,542.44
	7006	Engineering Expenses - District 6							3,410.63
	7007	Engineering Expenses - District 7							18,693.43
	7008	Engineering Expenses - District 8							43,054.26
	7009	Engineering Expenses - District 9							7,496.75
	7010	Engineering Expenses - District 10							4,153.88
	7011	Engineering Expenses - District 11							21,313.42
	7012	Engineering Expenses - District 12							24,796.79
	7013	Engineering Expenses - Materials Division							46,314.02
	7017	Miscellaneous Expenses for Purchase of Right-of-Way Various Highways							759,100.67
	7018	Engineering Audit Surveys, Various Highways							45,699.62
	7020	Advertising Highway Projects							25,040.43
	7021	Surplus Culverts - District 1							6,835.03
	7022	Surplus Culverts - District 2							8,102.88CR.
	7023	Surplus Culverts - District 3							1,925.19CR.

Table No. 4

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Miscellaneous									
	7025	Surplus Culverts - District 5							$ 2,180.34
	7026	Surplus Culverts - District 6							1,873.68CR.
	7027	Surplus Culverts - District 7							3,035.21
	7028	Surplus Culverts - District 8							6,660.78
	7031	Surplus Culverts - District 11							1,603.34CR.
	7092	Purchase of Metric Equipment							10,543.83
	7119	Purchase of Sequential Flashes - Various Locations							22,450.61
	7121	Hazard Removal - Various Locations							106,025.60
	7126	Automatic Railroad Grade Crossing Protection - Various Locations							11,004.28
	7134	Delineation - Various Locations							9,643.91
	7138	Purchase Seal Coat Aggregate - Various Locations							64,981.68
	7144	Install Stop Sign & Median Flashers - Various Locations							19,286.65
	7147	Traffic Study - Various Locations - Brandon Area							213,991.54
	7151	Bituminous Pavement, Sperring Avenue, C.P.R. - N. of Pritchard Farm Road							99,169.04
	7159	Computer Services - Roadway Design							18,000.00
		Bridge Projects (for details see Table No. 19)							867,095.49
		*Bituminous Surfacing	46.2						
		Calcium Chloride	13.3						
		Asphalt Surface Treatment	8.0						
		Seal Coat	36.5						
			104.0	11.4	33.1	15.3	*104.0		$17,627,871.66

Highway No. 7, North of Winnipeg

Table No. 5

HIGHWAY CONSTRUCTION
PROVINCIAL ROADS
APPROPRIATION 15-6A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
200	5127	Grading & Gravelling, P.R. No. 201 - Emerson, R.M. of Franklin & Town of Emerson	10.4						$ 10,030.65
	5129	Preliminary Engineering, Roseau River Bridge - North Section P.R. No. 217, R.M. of Franklin	8.0						15,792.81
	5305	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 23 - South Jct. P.R. No. 217, R.M. of Franklin & De Salaberry	7.1						84,943.37
	5431	2nd Lift Construction Gravel, P.R. No. 201 - Emerson, R.M. of Franklin & Town of Emerson	10.4	10.4	10.4				98,348.22
	5432	Calcium Chloride Treatment, P.R. No. 201 - Emerson, R.M. of Franklin & Town of Emerson	10.4				10.4 (Calcium Chloride Treatment)		27,045.96

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
200 & 217	5500	Grading & Gravelling, Arnaud - P.T.H. No. 83, R.M. of Franklin & De Salaberry	9.7						$ 166,698.79
200 & 246	5531	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 305 - P.R. No. 205, R.M. of Morris & Ritchot	8.2						62,252.00
200, 305 & 311	5134	Base Course & Asphalt Surface Treatment, St. Agathe - St. Adolphe Area, R.M. of Ritchot	12.9						94,642.95
201	5132	Shoo-Fly Detour, N.W. 16-2-3E., R.M. of Franklin							9,213.92
	5264	Preliminary Engineering, P.T.H. No. 31 - P.R. No. 242, R.M. of Pembina	16.0						36,019.74
	5265	Base Course & Asphalt Surface Treatment, P.R. No. 242 - Snowflake, R.M. of Pembina	0.7						20,569.66

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
201	5333	Stockpiling Traffic Gravel, Gnadenthal Easterly, R.M. of Rhineland	6.1						$ 52,502.36
	5369	Grading & Gravelling, P.R. No. 336 - Gnadenthal, R.M. of Rhineland	6.1	6.1	6.1				436,000.60
	5449	Gravelling & Calcium Chloride Treatment, P.T.H. No. 75 - N. Jct. P.T.H. No. 30, R.M. of Montcalm & Rhineland	11.0	11.0	11.0		11.0 (Calcium Chloride Treatment)		300,266.68
	5481	Detour & Bridge Approach, P.R. No. 336 - Gnadenthal, R.M. of Rhineland							6,992.71
	5502	Bituminous Overlay, 5th Street N.W. - P.T.H. No. 30, R.M. of Rhineland	0.8				0.6		138,526.28
	5503	Grading & Gravelling, P.T.H. No. 30 - P.T.H. No. 75, R.M. of Rhineland & Montcalm	11.0						3,179.52
204	5479	Install Illumination, Jct. P.R. No. 212 & P.R. No. 509, R.M. of St. Clements							3,148.00

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
205	5130	Preliminary Engineering, St. Pierre - South Jct. P.R. No. 200 - North Jct. P.R. No. 200 - P.R. No. 246, R.M. of De Salaberry & Morris	11.0						$ 25,171.34
	5302	Shoo-Fly Detour, Morris River East of Sec. 23-6-1W., R.M. of Morris							11,200.81
206	5341	Grading & Gravelling, P.T.H. No. 1 - P.T.H. No. 15, R.M. of Springfield & Tache	7.2	7.2	7.2				543,436.89
	5348	Grade Widening & Bituminous Pavement, P.T.H. No. 15 - P.R. No. 213, R.M. of Springfield	6.0	6.0		6.0	6.0		1,328,846.83
	5351	Storm Sewer Installation, U.V.D. of Oakbank, R.M. of Springfield							84,011.12
207	5136	Grading & Gravelling, Ste. Anne - Dufresne, R.M. of Tache & Ste. Anne	4.4						49,626.88

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
207	5368	Grade Widening, Base Course & Asphalt Surface Treatment, P.T.H. No. 1 E. - P.T.H. No. 15, R.M. of Springfield	4.6			0.4	0.4 (Asphalt Surface Treatment)		$ 48,293.91
	5433	Gravelling, Ste. Anne - Dufresne, R.M. of Ste. Anne & Tache	4.4	4.4	4.4				47,609.24
	5434	Calcium Chloride Treatment, Ste. Anne - Dufresne, R.M. of Ste Anne & Tache	4.4				4.4 (Calcium Chloride Treatment)		12,827.66
208	5392	Base Course & Asphalt Surface Treatment, P.T.H. No. 12 - P.R. No. 201, R.M. of Labroquerie & L.G.D. of Stuartburn	10.7			10.7	10.7 (Asphalt Surface Treatment)		508,123.34
209	5123	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 201 - Gardenton, L.G.D. of Stuartburn	6.1						17,960.04

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
209	5128	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No.59 - P.R. No. 218, R.M. of Franklin	9.0						$ 4,102.28
	5131	Preliminary Engineering, South of Gardenton - P.T.H. No. 59, R.M. of Franklin & L.G.D. of Stuartburn	4.5						8,326.39
	5391	Preliminary Engineering, Ridgeville - P.R. No. 200, R.M. of Franklin	8.0						42,513.40
	5463	Calcium Chloride Treatment, P.R. No. 201 - Gardenton, L.G.D. of Stuartburn	5.0				5.0 (Calcium Chloride Treatment)		8,854.47
210	5117	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 12 - P.R. No. 206, R.M. of Ste. Anne & Tache	7.5						39,721.85
	5121	Preliminary Engineering, Purchase of Right-of-Way & Utilities, Giroux - Ste. Anne, R.M. of Ste. Anne	6.9						25,391.18

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
210	5133	Grading, Base Course & Bituminous Surfacing, Woodridge - North Limit Sec. 18-5-10E., L.G.D. of Piney	9.7	1.5		1.5	1.5		$ 427,843.14
	5137	Grading & Gravelling, P.R. No. 206 - P.T.H. No. 59, R.M. of Tache & Ritchot	8.0	6.3	6.3				494,566.29
	5407	Grading & Gravelling, Giroux - Seine River, R.M. of Ste. Anne	6.0	6.0	6.0				472,053.54
210 & 311	5126	Base Course & Asphalt Surface Treatment, P.T.H. No. 12 - Giroux - La Broquerie, R.M. of Hanover & Ste. Anne	9.9						2,650.27
	5522	Stockpiling Traffic Gravel, Niverville - Giroux, R.M. of Hanover, Tache & Ste. Anne							157,243.21
212	5346	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 44 - P.T.H. No. 59, R.M. of St. Clements	5.2						8,671.02

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
212 & 213	5344	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 206 - Cook's Creek, R.M. of Springfield	5.0						$ 10,751.65
217	5138	Grading, Base Course & Asphalt Surface Treatment, Through the Village of Arnaud, R.M. of Franklin	0.7						29,048.99
	5304	Preliminary Engineering & Purchase of Right-of-Way, Arnaud - P.R. No. 200, R.M. of Franklin	2.5						31,450.59
220	5526	Purchase of Right-of-Way, P.T.H. No. 9 - P.R. No. 409, R.M. of West St. Paul	3.8						22,817.86
221	5181	Preliminary Engineering, P.R. No. 412 - P.R. No. 248, R.M. of Rosser	6.4						3,450.07
	5410	Base Course & Asphalt Surface Treatment, P.R. No. 334 - P.R. No. 412, R.M. of Rosser	7.3			0.9	0.9 (Asphalt Surface Treatment)		190,253.34

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
222	5381	Base Course, Arnes Southerly, R.M. of Rockwood & L.G.D. of Armstrong	6.1			6.1			$ 357,964.98
223	5515	Purchase of Right-of-Way, P.T.H. No. 7 Easterly, R.M. of Rockwood							792.54
226	5419	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 68 - P.R. No. 329, R.M. of Bifrost	6.2						451,377.55
	5455	Stockpiling Traffic Gravel, P.T.H. No. 68 - P.R. No. 329, R.M. of Bifrost	6.1						49,059.16
226 & 233	5290	Preliminary Engineering, P.R. No. 329 - Sylvan, R.M. of Bifrost & L.G.D. of Fisher	9.1						4,663.23
227	5458	Calcium Chloride Treatment, P.R. No. 248 - P.R. No. 430, R.M. of Woodlands	12.0				3.0 (Calcium Chloride Treatment)		11,594.67

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
227 & 248	5166	Base Course & Asphalt Surface Treatment, P.T.H. No. 26 - P.R. No. 227, P.R. No. 248 Easterly, R.M. of St. Francois Xavier, Rosser & Woodlands	15.2						$ 172,430.71
228	5170	Grading, Base Course & Bituminous Pavement, Teulon Westerly, R.M. of Rockwood & Village of Teulon	1.0			0.5	0.5		221,970.64
	5460	Bridge Detour & Approaches, E. of S.E. 25-23-2W., L.G.D. of Fisher							6,977.17
229	5347	Preliminary Engineering, Utilities & Purchase of Right-of-Way, P.T.H. No. 8 - P.T.H. No. 9, R.M. of St. Andrews	2.0						26,233.87
	5359	Base Course & Asphalt Surface Treatment, Komarno - Inwood, R.M. of Rockwood & L.G.D. of Armstrong	9.9			1.0	1.0 (Asphalt Surface Treatment)		96,822.69

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
230	5353	Preliminary Engineering, P.T.H. No. 9 - P.T.H. No. 8, R.M. of St. Andrews	7.8						$ 282.37
231	5321	Calcium Chloride Treatment, P.T.H. No. 7 - P.R. No. 228, L.G.D. of Armstrong	13.5				2.8 (Calcium Chloride Treatment)		3,744.62
233	5289	Preliminary Engineering, Sylvan - P.R. No. 228, L.G.D. of Fisher	10.3						8,246.92
	5320	Calcium Chloride Treatment, Park Gate - Gull Harbour, Unorganized Territory & Hecla Provincial Park	15.5				8.7 (Calcium Chloride Treatment)		22,557.80
234	5288	Preliminary Engineering, P.T.H. No. 8 - P.R. No. 233 S. Jct., R.M. of Bifrost	6.2						7,430.98
	5394	Preliminary Engineering & Purchase of Right-of-Way, P.R. No. 233 - P.R. No. 325, L.G.D. of Fisher	11.0						3,577.68

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
234	5489	Shoulder Widening with Crushed Rock, North of Riverton, R.M. of Bifrost	6.8						$ 388,867.65
	5509	Preliminary Engineering, Jct. P.R. No. 325 - Beaver Creek, L.G.D. of Fisher & Unorganized Territory	14.5						23,929.49
235	5291	Base Course & Asphalt Surface Treatment, P.R. No. 514 - North of Vogar, R.M. of Eriksdale & Siglunes & The Dog Creek Indian Reserve No. 46	14.0			9.4	14.0 (Asphalt Surface Treatment)		876,443.63
	5360	Grade Widening, E. of Lake Manitoba Narrows, R.M. of Siglunes	10.3						555,760.29
	5375	Grade Widening, P.R. No. 514 Westerly, R.M. of Siglunes, Dog Creek Indian Reserve No. 46	10.0	1.1	1.1				2,386.33

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
235	5376	Grading & Gravelling, Bridge Approaches, Lonely Lake Drain Bridge, L.G.D. of Alonsa	1.0	1.0	1.0				$ 181,357.79
	5428	Gravelling, East of Lake Manitoba Narrows, R.M. of Siglunes	10.3	9.2	9.2				79,889.60
236	5162	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 67 Northerly, R.M. of Rockwood	7.7						6,706.25
	5411	Grading & Gravelling, P.T.H. No. 67 - P.R. No. 517, R.M. of Rockwood	8.2	8.2	8.2				550,342.09
238	5313	Calcium Chloride Treatment, P.T.H. No. 9 - Stevens Ave. - Lockport, R.M. of St. Andrews							19,310.78
239	5447	Calcium Chloride Treatment, Jct. P.T.H. No. 6 - Steep Rock, L.G.D. of Grahamdale	12.5				12.5 (Calcium Chloride Treatment)		38,184.91

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
240	5150	Preliminary Engineering, P.R. No. 331 Southerly, R.M. of Portage la Prairie & Grey	13.0						$ 5,320.66
	5220	Detour & Bridge Approach, Shannon Creek, R.M. of Thompson							7,539.78
	5266	Preliminary Engineering, P.T.H. No. 3 - P.T.H.No. 23, R.M. of Pembina & Thompson	13.4						22,254.44
	5267	Purchase of Right-of-Way & Utilities, P.T.H. No. 3 - P.T.H. No. 23, R.M. of Pembina & Thompson	13.4						136,945.93
	5268	Preliminary Engineering, P.T.H. No. 23 - P.R. No. 245, R.M. of Thompson & Dufferin	9.3						47,125.27
	5363	Base Course & Asphalt Surface Treatment, P.R. No. 305 - St. Claude, R.M. of Grey & Dufferin	4.3			3.7	3.7 (Asphalt Surface Treatment)		231,552.15
	5439	Preliminary Engineering, P.T.H. No. 2 - N.E. Corner 28-9-7W., R.M. of Grey	8.0						22,612.36

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
240	5486	Grading & Gravelling, P.T.H. No. 3 - N.E. ¼ Sec. 33-4-7W., R.M. of Pembina & Thompson	11.5	5.5	5.5				$ 325,177.75
241	5330	Preliminary Engineering, P.T.H. No. 1E., City of Winnipeg & R.M. of Carter	6.1						26,232.44
242	5145	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 16 Northerly - Lynches Point & Westbourne North Easterly, R.M. of Portage la Prairie & Westbourne	10.1						400.00
	5173	Bridge Site Detour, Sec. 7-14-8W., R.M. of Portage la Prairie							5,625.35
	5219	Base Course & Asphalt Surface Treatment, Bagot - South, R.M. of North Norfolk	12.8			12.8	12.8 (Asphalt Surface Treatment)		819,175.74

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
242	5269	Preliminary Engineering, Somerset - P.R. No. 245, R.M. of Lorne	8.0						$ 91,999.93
	5300	Preliminary Engineering, Purchase of Right-of-Way & Utilities, East Junction P.T.H. No. 2 Westerly & Northerly, R.M. of South Norfolk	6.8						1,975.74
	5370	Grading & Gravelling, P.T.H. No. 2 South - P.R. No. 245, R.M. of South Norfolk	7.2						1,630.97
	5409	Base Course & Asphalt Surface Treatment, N.E. 8-9-9W. - N.E. 32-9-9W., R.M. of South Norfolk	4.0			4.0	4.0 (Asphalt Surface Treatment)		338,152.13
	5429	Abandonment Grant, Thru Sec. 13, 24, 25 & 36-7-10W. & Thru Sec. 1-8-10W., R.M. of South Norfolk	4.4						13,200.00
	5453	Grading & Gravelling, Somerset - E. Jct. P.R. No. 245, R.M. of Lorne	8.0	8.0	8.0				557,224.19

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
242	5461	Stockpiling Traffic Gravel, Sommerset - E. Jct. of P.R. No. 245, R.M. of Lorne & South Norfolk	8.0						$ 40,951.18
	5462	2nd Lift Construction Gravel, W. Jct. P.R. No. 245 - W. Jct. P.T.H. No. 2, R.M. of South Norfolk	7.2	5.8	5.8				6,525.18
	5491	Detour & Bridge Approach, Cypress River Bridge, R.M. of Lorne							12,287.81
243	5270	Preliminary Engineering, P.R. No. 248 - East Limit, Village of Reinland	6.0						761.69
	5492	Preliminary Engineering, P.T.H. No. 30 - P.R. No. 248, R.M. of Rhineland	9.0						38,190.42
245	5284	Purchase of Right-of-Way, W.Jct. P.R. No. 242 - N.E. Corner Sec. 31-6-10W., R.M. of Lorne & South Norfolk	4.9						25,180.46

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
245	5297	Grading & Gravelling, East of P.T.H. No. 34, R.M. of Lorne & Victoria	2.0						$ 18,693.56
	5298	Preliminary Engineering, Purchase of Right-of-Way, P.T.H. No. 34 - 2 Miles East, R.M. of Lorne	2.0						9,231.00
	5386	Detour & Bridge Approach, 4th Ave. S.W. - W. of 3rd St. S.W., R.M. of Dufferin							41,269.88
	5430	Abandonment Grant, E. of 19,30,31-6-10W. & N. of 18-6-10W. & N. of 13-6-11W., R.M. of Lorne	5.0						15,000.00
	5441	Purchase of Right-of-Way, Boyne River Bridge, R.M. of Dufferin	0.5						21,172.00
	5495	Grading & Surfacing Bridge Approach & Boyne River Diversion, N. of N.W. ½ Sec. 24-6-5W., R.M. of Dufferin	0.5						53,288.83
	5499	Grading, Bruxelles - Westerly, R.M. of Lorne	6.0	4.1	4.1				458,136.09

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
245 & 242	5283	Base Course & Asphalt Surface Treatment, Notre Dame de Lourdes - W. Jct. P.R. No. 242, R.M. of Lorne & South Norfolk	5.7			5.7	5.7 (Asphalt Surface Treatment)		$ 317,271.77
246	5390	Preliminary Engineering, P.R. No. 205 - P.T.H. No. 23, R.M. of Morris	8.1						30,203.14
248	5172	Base Course & Asphalt Surface Treatment, Fannystelle - Elie, R.M. of Cartier & Grey	11.0			11.0	11.0 (Asphalt Surface Treatment)		1,375,912.70
	5178	Preliminary Engineering, P.T.H. No. 3 - P.R. No. 305, R.M. of Dufferin	7.3						7,871.14
	5378	Completion of Grading, Fannystelle - Elie, R.M. of Cartier & Grey	11.5						2,440.00
248 & 603	5336	Bituminous Pavement & Gravelling, Fannystelle & Elm Creek, R.M. of Cartier & Grey	1.4				0.7 (Asphalt Surface Treatment)		48,976.28

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
250	5243	Preliminary Engineering & Purchase of Right-of-Way, P.R. No. 349 - East Jct. P.T.H. No. 1, R.M. of Whitehead	7.1						$ 13,752.20
	5257	Grading & Gravelling, P.T.H. No. 24 - East Jct. P.R. No. 355, R.M. of Blanshard & Saskatchewan	8.1	8.1	8.1				264,926.16
	5316	Grading & Gravelling, P.R. No. 359 South, L.G.D. of Park	2.0						9,589.48
	5317	Shoulder Widening, Rivers - P.T.H. No. 24, Town of Rivers, R.M. of Daly & Blanshard	7.4						3,947.51
	5329	Base Course & Asphalt Surface Treatment, Jct. 607 - 1.5 miles N., U.V.D. of Sandy Lake & R.M. of Harrison	1.8			1.5	1.5 (Asphalt Surface Treatment)		106,979.71
	5413	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 1 Northerly, R.M. of Whitehead & Daly	5.5						8,617.13

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
250	5497	Preliminary Engineering, Jct. P.T.H. No. 16 - Jct. P.T.H. No. 45, R.M. of Harrison	12.2						$ 35,720.27
250 & 607	5253	Base Course, Sealcoating & Bituminous Surfacing, E. Jct. P.R. No. 355 - P.T.H. No. 16 & Newdale Access Road, R.M. of Saskatchewan & Harrison	8.8			8.8	8.8		1,149,984.19
252	5323	Grading & Gravelling, P.R. No. 255 Southerly, U.V.D. of Reston & R.M. of Pipestone	12.7						16,903.60
	5529	Preliminary Engineering & Purchase of Right-of-Way, E. Jct. P.R. No. 345 - N. District Boundary, R.M. of Albert	9.6						8,709.44

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
254	5226	Preliminary Engineering, P.R. No. 476 - North East Corner 26-21-25W., R.M. of Silver Creek & Rossburn	8.2						$ 6,752.48
	5228	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 83 - P.R. No. 478, R.M. of Russell & Silver Creek	6.1						7,637.02
	5250	Grading, Base Course & Bituminous Surfacing, Oak Lake Beach Road, E. of 7-9-24W., R.M. of Sifton	0.3	0.3		0.3	0.3		60,445.63
	5261	Purchase of Right-of-Way, P.R. No. 476 - North East Corner 26-21-25W., R.M. of Rossburn & Silver Creek	8.2						74.75
	5310	Preliminary Engineering & Purchase of Right-of-Way, Oak Lake - North, R.M. of Sifton	1.8						16,335.64
	5397	Traffic Gravel, P.R. No. 577 - N.E. Corner 26-21-25W., R.M. of Rossburn							7,294.00

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
254	5416	Preliminary Engineering, Purchase of Right-of-Way & Utilities, Oak Lake Beach South, R.M. of Sifton	14.3						$ 36,442.07
256	5232	Purchase of Right-of-Way, P.R. No. 467 - P.T.H.No. 41, R.M. of Archie	13.2						21,286.06
	5338	Preliminary Engineering, W. Jct. P.R. No. 345 - W. Jct. P.T.H. No. 2, R.M. of Albert & Pipestone	11.3						5,564.30
259	5224	Base Course & Stockpiling Aggregate, P.T.H. No. 1 - Easterly, R.M. of Wallace & Woodworth	6.8			5.7			217,487.20
	5466	Asphalt Surface Treatment, P.R. No. 354 - Harding, R.M. of Woodworth & U.V.D. of Harding	6.3				5.9 (Asphalt Surface Treatment)		319,278.33

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
259	5467	Bituminous Surfacing, P.T.H. No. 1 Easterly, R.M. of Wallace & Woodworth	6.8				6.8		$ 363,559.76
260	5168	Grading & Gravelling, N.E. Corner Sec. 33-16-12W. - South Jct. P.R. No. 261, R.M. of Westbourne & Glenella	11.2	2.0	2.0				359,877.64
	5183	Preliminary Engineering, Purchase of Right-of-Way & Utilities, N. of Section 6-21-11W., L.G.D. of Alonsa	1.4						898.76
261	5167	Preliminary Engineering Purchase of Right-of-Way & Utilities, P.R. No. 260 - P.R. No. 462, R.M. of Glenella	6.7						565.04
	5184	Purchase of Right-of-Way & Utilities, S.E. Corner of Sec. 1-19-12W. Easterly, L.G.D. of Alonsa	6.1						17,651.57

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
262	5225	Grading & Gravelling, U.V.D. of Clanwilliam - Jct. P.R. No. 265, R.M. of Minto	1.6	1.6	1.6				$ 128,325.38
	5315	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 10 - Jct. of P.T.H. No. 16 & P.T.H. No. 16 A, R.M. of Odanah	11.2						85,785.59
	5342	Stockpiling Traffic Gravel, Jct. P.R. No. 265 - N.E. 36-16-18W., R.M. of Minto	2.0						8,802.33
	5482	Preliminary Engineering & Purchase of Right-of-Way, Jct. P.R. No. 265 - N.E. 36-16-18W., R.M. of Minto	2.0						12,343.16
263	5380	Preliminary Engineering, P.R. No. 262 - P.T.H. No. 10, R.M. of Clanwilliam, L.G.D. of Park	12.5						49.20

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
265	5155	Preliminary Engineering, Purchase of Right-of-Way & Utilities, 1 mile East of Langruth - 1 mile West, R.M. of Lakeview	2.0						$ 315.42
	5418	Grading & Gravelling, South Jct. P.T.H.No. 5 - Jct. P.R. No. 562, R.M. of Rosedale	8.6	8.6	8.6				676,958.39
	5468	Grading & Gravelling, P.R. No. 562 - P.R. No. 262, R.M. of Rosedale & Minto	7.0	7.0	7.0				1,157.79
	5511	Installation of Culverts, Neepawa Creek, R.M. of Rosedale							31,299.58
267	5186	Preliminary Engineering, Purchase of Right-of-Way & Utilities, East of P.T.H. No. 10 - N.E. Corner of N.W. ¼ Section 31-27-20W., - N.E. Corner of N.W. Sec. 36-27-21W., R.M. of Dauphin & Gilbert Plains	1.0						11,764.71

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
267	5213	Preliminary Engineering, S. Jct. P.R. No. 274 - West, Gilbert Plains & Grandview	6.3						$ 22,031.28
267 & 274	5185	Purchase of Right-of-Way & Utilities, Vicinity of South Junction, R.M. of Gilbert Plains	2.0						14,513.06
268	5139	Grading & Gravelling, P.T.H. No. 10 - P.R. No.587, R.M. of Minitonas	9.0	7.5	7.5				524,933.10
	5306	Completion of Base Course & Asphalt Surface Treatment, P.R. No. 587 - Lenswood, R.M. of Minitonas	6.3						46,457.09
	5308	Purchase of Right-of-Way & Utilities, P.T.H. No. 10 - P.R. No. 587, R.M. of Minitonas	9.1						56,026.64
	5470	Preliminary Engineering, P.T.H. No. 10 - East, L.G.D. of Mountain	2.0						3,899.08

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
269	5187	Purchase of Right-of-Way & Utilities, P.R. No. 490 - P.R. No. 276, Unorganized Territory	6.5						$ 22,072.81
270	5242	Base Course & Asphalt Surface Treatment, T.C.H. - P.T.H. No. 25, R.M. of Elton	9.1						69,811.01
	5251	Purchase of Right-of-Way, P.R. No. 263 - P.R. No. 359, L.G.D. of Park & Minnedosa Unorganized	2.0						6,102.57
271	5140	Preliminary Engineering, P.T.H. No. 20 - Westerly, L.G.D. of Mountain	5.0						5,335.41
	5472	Purchase of Right-of-Way & Utilities, P.T.H. No. 20 - West, L.G.D. of Mountain	5.0						9,660.55
272	5142	Preliminary Engineering, P.T.H. No. 20 - Village of Duck Bay, L.G.D. of Mountain	13.4						3,814.77

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
272	5263	Calcium Chloride Treatment, Vicinity of Village of Duck Bay, Unorganized Territory							$ 9,354.16
	5444	Calcium Chloride Treatment, P.T.H. No. 20 - Duck Bay, Swan River Unorganized							12,168.02
273	5435	Purchase of Right-of-Way & Utilities, P.T.H. No. 10 - Ukraina, R.M. of Ethelbert, Mossey River & Dauphin	4.7						53.00
274	5188	Purchase of Right-of-Way & Utilities, East of Sections 28,33-26-22W., R.M. of Gilbert Plains	1.5						6,192.35
	5189	Purchase of Right-of-Way & Utilities, North Jct. P.R. No. 267 - South of P.T.H. No. 10, R.M. of Ethelbert	11.5						132,992.60

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
274	5364	Grading & Gravelling, South of P.R. No. 267 - East of Sections 28, 33-26-22W., R.M. of Gilbert Plains	1.5	1.5	1.5				$ 182,497.14
275	5222	Preliminary Engineering, P.T.H. No. 10 A - E. Jct. P.R. No. 588, R.M. of Swan River	8.2						14,027.08
276	5191	Purchase of Right-of-Way & Utilities, P.R. No. 269 - P.R. No. 328, Unorganized Territory	15.6						536.52
	5405	2nd Lift Construction Gravel, P.R. No. 328 - South Bdry. Waterhen Indian Reserve	6.6	6.6	6.6				28,061.23
	5421	Calcium Chloride Treatment, South of Toutes Aides - Manipogo Park, R.M. of Lawrence	4.5				4.5 (Calcium Chloride Treatment)		9,126.18
	5451	Base Course & Bituminous Surfacing, S. of Gendreau St., R.M. of Ste. Rose & Village of Ste. Rose							7,801.96

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
276	5539	Grading & Gravelling, P.R. No. 238 - South, E.D. of Ste. Rose & Unorganized Territory	7.8						$ 5,665.14
277	5239	Grade Widening & Gravelling, P.T.H. No. 10 - West, Swan River Unorganized	8.0	8.0	8.0				442,259.01
	5357	Grade Widening, Base Course & Asphalt Surface Treatment, Barrows - Saskatchewan Border, Unorganized Territory	9.5						245,425.68
	5387	Grading, Base Course & Asphalt Surface Treatment, Barrows - Easterly, Unorganized Territory	8.3	2.5		2.5	2.8 (Asphalt Surface Treatment)		364,779.98
278	5422	Calcium Chloride Treatment, P.T.H. No. 50 - North, Through Settlement of Hillridge, L.G.D. of Alonsa	4.0				4.0 (Calcium Chloride Treatment)		8,609.60

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
279 & 588	5471	Preliminary Engineering, N. of Sec. 31,32,33-37-28W., E. of Sec. 1 & 12-38-29W., & E. of Sec. 25 & 36-37-29W., R.M. of Swan River	7.2						$ 12,942.31
302	5122	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 1 - P.R. No. 501, R.M. of Ste. Anne & Tache	6.2						18,595.59
	5124	Preliminary Engineering, Purchase of Right-of-Way & Utilities, La Broquerie North, R.M. of Ste. Anne & La Broquerie	3.2						13,693.15
	5345	Purchase of Right-of-Way, P.T.H. No. 15 - North Boundary, R.M. of Springfield	6.0						3,668.00
	5475	Relocation of Utilities, Richer South, R.M. of Ste. Anne	5.0						9,400.00

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
303	5512	Preliminary Engineering, Purchase of Right-of-Way & Utilities, 1 Mile East of P.T.H. No. 12, - 3 Miles West of P.T.H. No. 13, R.M. of Hanover	4.0						$ 877.14
304 & 314	5349	Grading & Gravelling, Vicinity of Moon Lake & Cat Lake, Unorganized Territory	0.9	0.9	0.9				3,432.22
305	5125	Preliminary Engineering, P.T.H. No. 59 - East of Rat River, R.M. of Hanover & Ritchot	6.5						8,251.14
	5169	Base Course & Asphalt Surface Treatment, Assiniboine River Southerly, R.M. of South Norfolk & Portage la Prairie	7.3			4.3	4.3 (Asphalt Surface Treatment)		404,974.25
	5221	Bridge Approaches, N.E. Corner 21-7-2W., N. & N.W. ¼ 21-7-7W., N. E. Corner 20-7-2W., R.M. of Macdonald							12,753.94

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravel-ling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
305	5286	Preliminary Engineering, P.T.H. No. 2 - N.E. Corner Sec. 14-9-8W., R.M. of South Norfolk	7.1						$ 32,705.85
	5493	Preliminary Engineering, P.T.H. No. 75 - West, R.M. of Macdonald	2.0						10,421.44
306	5343	Purchase of Right-of-Way, P.R. No. 213 - P.T.H. No. 44, R.M. of Springfield	8.2						2,024.95
307	5335	Purchase of Right-of-Way, P.T.H. No. 11 - West Park Gate, R.M. of Whitemouth	8.3						5,338.14
	5352	Preliminary Engineering, Park Gate - Rennie River, Whiteshell Provincial Park	16.4						5,168.90
308	5362	Calcium Chloride Treatment, East Braintree - E. of 24-2-14E., L.G.D. of Reynolds, Piney & N.W. Angle Forest Reserve	50.6				39.1 (Calcium Chloride Treatment)		35,529.17

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
311	5135	Grading & Gravelling, P.R. No. 206 - P.T.H. No. 59, R.M. of Hanover	7.2	5.0	5.0				$ 385,162.42
	5440	Install Pedestrian Corridor, Kaiser Avenue, Village of Niverville							10,713.87
311 & 318	5408	Grading, Base Course & Bituminous Surfacing, P.T.H. No. 59 - Niverville, P.R. No. 311 - Southerly, Village of Niverville & R.M. of Hanover	3.4	3.4		3.4	3.4		1,335,666.77
318	5118	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 311 - P.R. No. 303, R.M. of Hanover	7.4						21,134.30
319	5389	Calcium Chloride Treatment, P.T.H. No. 59 - Patricia Beach, L.G.D. of Alexander							9,983.42

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravel-ling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
320	5350	Preliminary Engineering, Clandeboye Turn-off - Netley Creek, R.M. of St. Andrews	5.1						$ 1,792.48
321	5156	Preliminary Engineering, P.T.H. No. 7 - P.R. No. 220, R.M. of Rockwood, Rosser & West St. Paul	4.1						4,829.94
	5314	Calcium Chloride Treatment, P.T.H. No. 8 - P.R. No. 220, R.M. of West St. Paul							3,282.49
	5474	Instal Automatic Railway Crossing Protection, Stoney Mountain, R.M. of Rockwood							2,367.88
322	5158	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 6 - P.T.H. No. 67, R.M. of Rockwood	4.3						35,844.19

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
325	5446	Calcium Chloride Treatment, Ashern - Jct. P.R. No. 325, R.M. of Siglunes	18.5				18.5 (Calcium Chloride Treatment)		$ 13,634.69
	5477	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 6 - P.R. No. 235, R.M. of Siglunes	18.5						6,894.22
329	5374	Preliminary Engineering, P.T.H. No. 8 - P.R. No. 326, R.M. of Bifrost	8.3						7,610.56
329 & 226	5247	Removal of Detour & Construction of Bridge Approaches, Icelandic River Bridge, R.M. of Bifrost							18,154.70
331	5149	Grading & Gravelling, P.T.H. No. 13, Westerly - P.R. No. 240, R.M. of Portage	12.0						37,897.15
	5218	Base Course & Asphalt Surface Treatment, P.R. No. 240 - P.T.H. No. 13, R.M. of Portage la Prairie	12.0			12.0	12.0 (Asphalt Surface Treatment)		1,576,803.57

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
334	5182	Base Course & Asphalt Surface Treatment, P.R. No. 240 - P.T.H. No. 13, R.M. of Portage la Prairie	0.8			0.6	0.6 (Asphalt Surface Treatment)		$ 7,679.76
	5272	Completion of Grading & Gravelling, Bridge Approach East of Sec. 9-8-1E., R.M. of Macdonald	1.0						2,776.50
	5273	Preliminary Engineering & Purchase of Right-of-Way, East of Sec. 9-8-1E. & N. of Sec. 8 & 9-8-1E., R.M. of Macdonald	2.0						4,143.76
338	5274	Preliminary Engineering & Purchase of Right-of-Way, East of S.E. $\frac{1}{4}$ Sec. 20-3-6W., R.M. of Stanley	0.7						18,186.05
	5401	Preliminary Engineering & Purchase of Right-of-Way, Boyne River East of N.E. $\frac{1}{4}$ Section 30-6-6W., R.M. of Dufferin	1.0						29,727.53

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
338	5452	Grading & Gravelling, N. of P.R. No. 245, East of Sec. 30-6-6W., R.M. of Dufferin	1.0	1.0	1.0				$ 119,403.57
340	5245	Preliminary Engineering, P.T.H. No. 1 - P.T.H. No. 2, R.M. of Elton, Cornwallis, South Cypress & Oakland	26.0						58,400.98
	5322	Purchase of Right-of-Way P.R. No. 253 - North, R.M. of Strathcona	5.0						20,605.28
	5427	2nd Lift Construction Gravel, South & North of Belmont, R.M. of Strathcona	7.5	7.5	7.5				15,829.95
	5496	Base Course & Asphalt Surface Treatment, Belmont - P.T.H.No. 23, R.M. of Strathcona	1.5			1.0	1.0 (Asphalt Surface Treatment)		80,934.47
341	5457	Purchase of Right-of-Way, P.T.H. No. 10 - P.R. No. 444, R.M. of Morton	4.0						8,386.24

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
342	5358	Grading, P.R. No. 253 - South, R.M. of Argyle & Louise	4.0	4.0	4.0				$ 327,347.66
343	5442	Grading, Regent Easterly, R.M. of Morton	3.1	3.1	3.1				174,698.70
344	5231	Preliminary Engineering, Wawanesa - North of P.R. No. 453, R.M. of Oakland	18.2						4,624.31
	5244	Preliminary Engineering & Purchase of Right-of-Way, N.E. Corner 9-9-18W. - Richmond Avenue, R.M. of Cornwallis & City of Brandon	8.0						71,326.09
	5377	Install Fixed Time Traffic Signals, Richmond Avenue & 9th Street Brandon, City of Brandon							960.01

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of: Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
345	5237	Gravel Base Course & Asphalt Surface Treatment, W. Jct. P.R. No. 252 - Tilston, R.M. of Albert	9.8			9.8	9.8 (Asphalt Surface Treatment)		$ 164,745.70
349	5235	Preliminary Engineering, P.T.H. No. 10 - P.R. No. 250, R.M. of Cornwallis & Whitehead	13.0						8,523.29
352	5146	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 16 North, R.M. of Lansdowne	5.0						26,614.37
	5163	Preliminary Engineering, Arden North - Jct. P.R. No. 575, R.M. of Lansdowne	12.0						4,464.68
353	5241	Base Course & Asphalt Surface Treatment, P.R. No. 468 - P.T.H. No. 10, R.M. of Elton	6.1						43,737.15

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
353	5339	Base Course & Asphalt Surface Treatment, West of Brookdale R.M. of Elton & North Cypress	5.7			5.7	5.7 (Asphalt Surface Treatment)		$ 361,128.18
	5513	Bridge Approach & Deck Surfacing, N. Sec. 27-12-16W., R.M. of North Cypress							3,314.16
353 & 468	5246	Grading & Gravelling, South Jct. P.R. No. 468 Easterly & North Jct. P.R. No. 353 Southerly, R.M. of Elton	5.1	5.1	5.1				309,693.00
353, 468 & 464	5454	Stockpiling Gravel, Vicinity of Brookdale, R.M. of Elton & North Cypress	12.5						65,661.18
354	5309	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 21 - Northerly, R.M. of Daly & Whitehead	5.5						11,896.37

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
354	5312	Preliminary Engineering, P.R. No. 355 North, R.M. of Blanshard	6.2						$ 55.73
	5318	Preliminary Engineering, Little Saskatchewan River - Junction P.T.H. No. 45, R.M. of Strathclair	3.6						337.91
354 & 355	5258	Purchase of Right-of-Way, East Cardale - South Jct. P.R. No. 470, R.M. of Blanshard & Hamiota	11.2						1,068.27
355	5262	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 83 - P.R. No. 474, R.M. of Miniota	7.1						777.31
	5332	Preliminary Engineering, Purchase of Right-of-Way, Grading & Gravelling, North of 11 & 12-15-25W., R.M. of Miniota	1.0	1.0	1.0				64,160.73

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
357	5259	Preliminary Engineering & Purchase of Right-of-Way, P.R. No. 562 - P.T.H. No. 10, R.M. of Rosedale & Clanwilliam	12.7						$ 47,931.12
	5514	Base Course & Asphalt Surface Treatment, P.T.H. No. 5 - P.R. No. 562, R.M. of Rosedale	8.9						3,395.05
359	5255	Preliminary Engineering, Jct. P.R. No. 354 - N.E. Corner of Sec. 8-19-22W., L.G.D. of Park	10.3						702.60
	5260	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 45 - N.E. Corner 8-19-22W., R.M. of Rossburn, Birtle & Russell Unorganized	10.1						21,927.79
	5327	Preliminary Engineering & Purchase of Right-of-Way, Wasmin Creek Bridge, L.G.D. of Park	1.5						5,163.47
	5383	Grading & Gravelling, P.R. No.566 - N.E. Corner Sec. 8-19-22W., R.M. of Rossburn & L.G.D. of Park	4.0	4.0	4.0				293,623.01

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
359	5494	Purchase of Right-of-Way, Utilities & Fencing, Jct. P.R. No. 354 - N.E. Sec. 8-19-22W., L.G.D. of Park, Birtle & Russell Unorganized	10.2						$ 21,662.00
362	5192	Purchase of Right-of-Way & Utilities, W. Jct. P.R. No. 267 - P.R. No. 273, R.M. of Dauphin	6.0						4,876.54
363	5210	Purchase of Right-of-Way, P.T.H. No. 83 - Saskatchewan Border, R.M. of Shell River	5.0						1,734.00
364	5193	Purchase of Right-of-Way, Drainage Improvements & Utilities, South of Winnipegosis, East of Sec. 15,22 & 27-30-18W., R.M. of Mossey River	3.0						997.50
	5214	Preliminary Engineering, South of Winnipegosis, R.M. of Mossey River	2.6						13,052.01

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
364 & 608	5373	Sealcoating, Winnipegosis Access Road - P.T.H. No. 20 - South Bdry., Village of Winnipegosis	1.9				1.9 (Seal Coat)		$ 17,956.00
366	5194	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 5 - South, R.M. of Grandview	7.5						68,748.04
	5195	Grading & Gravelling, P.R. No. 584 - West, R.M. of Boulton	4.1						1,170.38
	5196	Purchase of Right-of-Way & Utilities, P.R. No. 584 East, R.M. of Grandview & Boulton	14.4						63,387.89
	5197	Preliminary Engineering, Purchase of Right-of-Way & Utilities, North Valley River Bridge - N.E. Corner of Sec. 12-26-24W., R.M. of Grandview	3.5						3,816.12

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
366	5198	Grading & Gravelling, P.R. No. 267 - N.E. Corner Sec. 12-28-24W., R.M. of Grandview & Duck Mountain Forest Reserve	4.0						$ 9,623.24
	5240	Grade Widening & Shoulder Gravel, P.R. No. 478 - Blighty Street, R.M. of Shellmouth	0.3	0.3	0.3				12,960.58
	5292	Grading & Gravelling, Vicinity of Woody River, L.G.D. of Mountain	1.0	1.0	1.0				1,867.68
	5296	Grading & Gravelling, P.T.H. No. 10 - P.R. No. 587, R.M. of Minitonas	8.5						31,137.40
	5365	Grading & Gravelling, N.E. Corner Sec. 12-28-24W. - South Boundary Duck Mountain Provincial Park, Duck Mountain Forest Reserve	4.1	4.1	4.1				567,610.03
	5382	Grading & Gravelling, P.T.H. No. 5 - South, R.M. of Grandview	7.0	5.7	5.7				548,141.88

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
366	5402	2nd Lift Construction Gravel, P.R. No. 267 - N.E. Corner Sec. 12-28-24W., R.M. of Grandview & Duck Mountain Forest Reserve	4.0	2.7	2.7				$ 11,810.66
	5403	2nd Lift Construction Gravel, East of Sections 1, 12-24-27W., East of Sections 4, 9, 16, 21-23-27W., R.M. of Boulton	5.2	3.3	3.3				11,169.84
	5404	2nd Lift Construction Gravel, P.R. No. 584 - West, R.M. of Boulton	4.0	3.3	3.3				11,835.99
	5423	Calcium Chloride Treatment, P.R. No. 267 North, R.M. of Grandview & Duck Mountain Forest Reserve							19,733.06
366 & 367	5445	Calcium Chloride Treatment, Duck Mountain Forest Reserve							121,838.55
367	5424	Calcium Chloride Treatment, P.T.H. No. 10, R.M. of Ethelbert & Duck Mountain Forest Reserve							12,914.40

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
401	5476	Preliminary Engineering & Purchase of Right-of-Way, P.R. No. 204 - P.R. No. 202, R.M. of East St. Paul	1.9						$ 11,829.10
407	5400	Bridge Construction, Gunn's Creek, R.M. of St. Clements							5,097.47
408	5340	Purchase of Right-of-Way, P.T.H. No. 44 - P.R. No. 307, R.M. of Whitemouth	8.5						7,671.56
	5388	Calcium Chloride Treatment, P.T.H. No. 11 - River Hills, R.M. of Whitemouth							8,786.70
411	5157	Completion of Grading, P.T.H. No. 6 - P.R. No. 414, R.M. of Woodlands	7.0	7.0	7.0				1,188.97
	5171	Grading & Gravelling, P.R. No. 414 - P.R. No. 430, R.M. of Woodlands & Portage la Prairie	7.2	5.2	5.2				448,320.40

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
411	5438	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 414 - P.R. No. 430, R.M. of Woodlands	7.2						$ 5,861.11
415	5159	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 7 - P.R. No. 416, R.M. of Rockwood, Woodlands & L.G.D. of Armstrong	19.3						18,445.00
	5506	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 6 - N. Jct. P.R. No. 518, R.M. of St. Laurent	9.2						4,831.33
416	5426	Completion of Grading, Vicinity of Inwood, L.G.D. of Armstrong	2.5	2.5	2.5				237,057.56
419	5478	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 6 - Sandy Point, R.M. of Coldwell	11.7						6,938.17

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
420	5275	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 75 West, R.M. of Macdonald & Ritchot	3.2						$ 49,537.41
421	5301	Preliminary Engineering & Purchase of Right-of-Way, P.R. No. 522 - P.T.H. No. 75, R.M. of Rhineland & Montcalm	4.6						81,110.08
423	5248	Grading, South Junction P.R. No. 242 - P.T.H. No. 3, R.M. of Louise	12.3	12.3	12.3				6,397.11
424	5152	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 2 - P.R. No. 241, R.M. of Cartier & Macdonald	6.4						798.03
428	5276	Preliminary Engineering, P.T.H. No. 2 - P.R. No. 241, R.M. of Cartier & Macdonald	11.4						66,366.42

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
428	5484	Grading & Gravelling, P.T.H. No. 14 - P.T.H. No. 23, R.M. of Roland & Stanley	11.4	11.4	11.4				$ 637,827.15
	5525	Detour & Bridge Approach, E. of N.E. ¼ Sec. 9-4-4W., R.M. of Roland							10,452.63
430	5147	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 1 - P.T.H. No. 26, R.M. of Portage la Prairie	6.5						30,162.90
	5151	Grading & Gravelling, T.C.H. West - P.T.H. No. 26, R.M. of Portage la Prairie	8.9						175,357.00
	5160	Preliminary Engineering & Purchase of Right-of-Way, P.R. No. 227 - St. Ambroise Beach, R.M. of Portage la Prairie	12.5						84,231.06
	5519	Base Course & Asphalt Surface Treatment, P.T.H. No. 26 - P.R. No. 227, R.M. of Portage la Prairie	5.1						2,000.00

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
430	5520	Abandonment Grant, N.E. Sec. 1-11-5W., Easterly & Northerly - Jct. P.R. No. 426, Assiniboine River Northerly - P.T.H. No. 26, R.M. of Portage la Prairie							$ 20,400.00
430 & 426	5412	2nd Lift Construction Gravel, T.C.H. - P.T.H. No. 26, R.M. of Portage la Prairie	8.9	8.9	8.9				73,107.99
432	5277	Preliminary Engineering, Mountain Street (Morden) Railway Crossing - South Limit of Morden, R.M. of Stanley	0.5						6,291.54
	5278	Bridge Detour & Approach, Graham Creek, R.M. of Thompson							4,658.79
	5279	Grading & Gravelling, Morden - P.T.H. No. 3, R.M. of Stanley & Thompson	11.6						12,969.20
	5280	Detour & Bridge Approach, Morden - P.T.H. No. 23, R.M. of Thompson & Stanley							3,044.02

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
432	5464	Grading, Base Course & Bituminous Surfacing, South Railway Street - Progressive Road, R.M. of Stanley	0.5	0.5		0.5			$ 378,340.52
441	5415	Preliminary Engineering, P.T.H. No. 83 - P.T.H. No. 1, R.M. of Wallace	8.6						10,838.09
442	5371	Grading, Long River Bridge Approaches, R.M. of Louise	0.2	0.2	0.2				7,148.63
445	5450	Grade Widening, Base Course & Asphalt Surface Treatment, Melita - Westerly, R.M. of Arthur & Edward	11.7	11.7		11.7	11.7 (Asphalt Surface Treatment)		645,138.35
447	5465	Grading, Souris River - P.T.H. No. 83, R.M. of Arthur	4.5	3.6	3.6				104,254.95
	5480	Grading, Souris River Bridge, R.M. of Arthur							9,135.31

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
447 & 607	5372	Bituminous Sealcoating, Shoal Lake Foxwarren Area, R.M. of Shoal Lake & Birtle							$ 13,901.99
450	5236	Base Course & Asphalt Surface Treatment, U.S. Border North, R.M. of Winchester	6.2			0.8	0.8 (Asphalt Surface Treatment)		41,078.64
460	5154	Preliminary Engineering, Purchase of Right-of-Way & Utilities, Gladstone - P.R. No. 265, R.M. of Westbourne	11.5						99,299.82
462	5199	Purchase of Right-of-Way & Utilities, North of Sec. 7-20-14W., R.M. of McCreary	1.8						4,449.64
	5420	Bridge Detour, N. of N.E. ¼ Sec. 19-19-13W., L.G.D. of Alonsa							6,768.78
464	5223	Grading & Gravelling, N.E. Cor. Sec. 28-11-16W. - P.R. No. 353, R.M. of North Cypress	6.0	6.0	6.0				298,258.37

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
465	5303	Preliminary Engineering, Jct. P.T.H. No. 5 - South Jct. P.R. No. 464, R.M. of Langford	5.1						$ 1,485.31
467	5417	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 83 - West Jct. of P.R. No. 256, R.M. of Miniota & Archie	12.2						17,302.00
468	5249	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 457 - P.R. No. 561, R.M. of Elton & Cornwallis	10.3						34,636.00
	5414	Preliminary Engineering, P.R. No. 561 - P.R. No. 353, R.M. of Elton	4.0						3,836.37
471	5254	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 5 - N.E. Corner Sec. 32 - 15 - 16W., R.M. of Rosedale	10.5						7,536.25

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
474	5285	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 24 - N.E. Sec. 31-14-25W., R.M. of Miniota	8.5						$ 54,009.44
	5448	Grading & Gravelling, P.T.H. No. 42 South, R.M. of Birtle	6.0	6.0	6.0				1,663.01CR.
	5505	Preliminary Engineering & Purchase of Right-of-Way, N.E. Sec. 31-14-25W., - N.E. Sec. 36-15-26W., R.M. of Birtle	8.4						20,006.00
477	5331	Grading & Gravelling, N. of Sec. 18-16-23W., R.M. of Shoal Lake	0.7	0.7	0.7				62,556.57
478	5227	Grading & Gravelling, Silverton North, R.M. of Silver Creek	6.2						8,688.21
	5252	Preliminary Engineering, P.T.H. No. 16 - East, R.M. of Russell & Silver Creek	4.6						7,326.02

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
478	5326	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 45 South, R.M. of Silver Creek	5.5						$ 2,943.65
	5396	Surfacing & Construction of a Bern, Binscarth - Saskatchewan Bdry., R.M. of Russell & Village of Binscarth	10.2						2,994.76
480	5200	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 5 - Laurier, R.M. of Ste. Rose	2.1						100.00
	5201	Preliminary Engineering, Purchase of Right-of-Way & Utilities, S.E. 19-22-16W. - N.E. 5-23-16W., R.M. of Ochre River	4.2						25,824.35
	5202	Purchase of Right-of-Way & Utilities, Laurier - South of Henderson Creek, R.M. of Ste. Rose & Ochre River	6.0						3,120.07

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
480	5211	Base Course & Bituminous Surfacing, P.T.H. No. 5 - Laurier, R.M. of Ste. Rose	2.5			2.5	2.5		$ 258,531.25
	5215	Preliminary Engineering, N. Jct. P.T.H. No. 5 - Turtle River, R.M. of Ochre River	5.0						23,351.80
	5216	Preliminary Engineering, S. Jct. P.T.H. No. 5 - East, R.M. of Ste. Rose	1.0						3,215.12
	5366	Grading & Gravelling, North of Henderson Creek - Makinak, R.M. of Ochre River	5.5	5.5	5.5				562,632.06
482	5203	Base Course & Road-Mix, P.R. No. 547 - P.T.H. No. 5, R.M. of Shellmouth & Shell River	11.1			3.1	3.1		4,599.03
485	5141	Preliminary Engineering, P.R. No. 366 - P.R. No. 486, R.M. of Swan River	10.2						9,166.88

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
486	5334	Grading & Gravelling, P.T.H. No. 83 - P.R. No. 485, R.M. of Swan River	3.2						$ 53,653.62
	5469	Preliminary Engineering, N. of Sec. 36-34-28W. & 31-34-27W., R.M. of Swan River							7,910.93
487	5143	Grading & Gravelling, P.T.H No. 83 - P.R. No 588, R.M. of Swan River	8.4	7.0	7.0				584,021.00
488	5293	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 10 Southerly, R.M. of Swan River	1.3						1,912.14
489	5204	Purchase of Right-of-Way & Utilities, Garland - East of Garland River, R.M. of Ethelbert	5.8						3,450.00
	5399	Bridge Approach & Detour, E. of S.E. 8-34-20W., L.G.D. of Mountain							2,319.74

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
501	5119	Preliminary Engineering & Purchase of Right-of-Way, Ste. Genevieve - Ross, R.M. of Tache	5.1						$ 3,371.08
	5120	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 12 - T.C.H., R.M. of Tache	6.1						114,837.76
	5528	Grading & Gravelling, St. Genevieve Access Road - Ross, R.M. of Tache	4.9	0.3	0.3				27,517.92
502	5355	Preliminary Engineering, Minnewawa St. - First St., Town of Lac du Bonnet	0.5						3,581.34
517	5164	Preliminary Engineering, P.R. No. 236 - P.R. No. 322, R.M. of Rockwood & Woodlands	6.9						88.55
518	5148	Grading & Gravelling, P.T.H. No. 6 North, R.M. of Woodlands	7.8	5.1	5.1				10,863.07

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
518	5161	Preliminary Engineering & Purchase of Right-of-Way, District Boundary - South Jct. of P.R. No. 415, R.M. of St. Laurent	5.3						$ 6,685.42
521	5281	Preliminary Engineering, P.T.H. No. 32 - P.R. No. 243, R.M. of Stanley	3.2						171.83
528	5282	Base Course & Asphalt Surface Treatment, P.T.H. No. 3 - Kaleida, R.M. of Pembina	4.4			4.3	4.3 (Asphalt Surface Treatment)		269,050.99
541	5393	Grading, P.T.H. No. 5 Easterly, R.M. of Roblin	4.4	4.4	4.4				280,128.75
547	5205	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 482 - Saskatchewan Boundary, R.M. of Shellmouth	2.1						2,779.37

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
566	5229	Purchase of Right-of-Way, West Jct. P.R. No. 359 - Jct. P.R. No. 577, R.M. of Rossburn	4.5						$ 6,452.76
	5256	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 45 - P.R. No. 359, R.M. of Shoal Lake & Rossburn	4.1						25,295.78
566 & 21	5384	Grading & Gravelling, U.V.D. of Oakburn - P.R. No. 359, R.M. of Rossburn & Shoal Lake	4.0	4.0	4.0				305,676.42
568	5230	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 83 West, R.M. of Birtle	4.3						4.75
575	5165	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 260 West - Tenby, R.M. of Westbourne, Glenella & Lansdowne	3.4						5,819.96

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
575	5174	Bridge Detour, Sec. 18-17-14W., R.M. of Lansdowne							$ 2,326.76
	5356	Preliminary Engineering, Purchase of Right-of-Way & Utilities, Jct. of P.R. No. 352 - N.E. Corner 19-17-14W., R.M. of Lansdowne	2.0						12,714.39
577	5287	Preliminary Engineering & Purchase of Right-of-Way, P.R. No. 566 - Rossman Lake, R.M. of Rossburn	9.2						106,411.89
	5385	Grading & Gravelling, P.R. No. 566 - Rossman Lake, R.M. of Rossburn	9.7	9.7	9.7				955,884.36
	5517	Installation of Culvert, Herin Creek, R.M. of Rossburn							43,853.96
582	5206	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 480 West, R.M. of Ochre River	5.0						2,118.97

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
582	5367	Grading & Gravelling, P.R. No. 480 - West, R.M. of Ochre River	5.1	4.7	4.7				$ 486,285.56
583	5207	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 83 - Shell River Bridge, R.M. of Shell River	1.3						1,498.68
584	5217	Preliminary Engineering, P.R. No. 591 - North, R.M. of Hillsburg	2.2						22,231.72
586	5238	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 83 - Durban, R.M. of Swan River	0.7						1,675.15
	5307	Grading & Gravelling, P.T.H. No. 83 Easterly, R.M. of Swan River	5.1						1,438.83
587	5144	Grading & Gravelling, E. of P.R. No. 366 - N. of Sec. 32-37-25W., R.M. of Minitonas	1.0	0.6	0.6				373.25

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
587 & 266	5319	Preliminary Engineering & Purchase of Right-of-Way, North & South from Jct. P.R. No. 587 & P.R. No. 266, Village of Bowsman & R.M. of Minitonas	2.0						$ 23,362.32
588	5295	Preliminary Engineering & Purchase of Right-of-Way, P.T.H. No. 83 North, R.M. of Swan River	2.3						1,621.02
	5398	Grading & Gravelling, Jct. P.R. No. 487 Southerly, R.M. of Swan River	1.0	1.0	1.0				83,282.12
591	5208	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.T.H. No. 83 - P.R. No. 584, R.M. of Shell River & Hillsburg	5.4						6,148.74
603	5337	Bituminous Pavement, Gretna Access Road, Village of Gretna	1.0				0.9		106,707.24

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
604	5180	Excavation, Base Course & Bituminous Pavement, Broadway Avenue - Deloraine, Town of Deloraine	0.5			0.5	0.5		$ 279,813.86
	5437	Bituminous Surfacing, Victoria Ave. - Mound Ave., Village of Pilot Mound	0.3				0.3		10,208.45
605	5456	Drainage, Village of Glenboro & R.M. of South Cypress	0.2						47,535.01
	5483	Grading, Base Course & Asphalt Surface Treatment, P.R. No. 331 - Southerly, R.M. of Portage la Prairie	0.7						54,961.45
	5490	Asphalt Surface Treatment, Lenore Access, R.M. of Woodworth	0.6				0.6 (Asphalt Surface Treatment)		16,668.79
	5498	Bituminous Pavement, Town of Alexander, R.M. of Whitehead	0.4				0.4		62,745.37

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
606	5510	Bridge Removal, Grading & Gravelling, Austin Access, R.M. of North Norfolk	0.3						$ 54,106.42
607	5325	Preliminary Engineering, Harrowby Access, R.M. of Russell	0.6						5,988.85
	5328	Excavating, Base Course & Bituminous Pavement, Neepawa Access - C.P.R. - Commerce Street, Town of Neepawa	0.6			0.6	0.6		12,591.63
	5485	Calcium Chloride Treatment, Harrowby Access, R.M. of Russell	1.0				1.0 (Calcium Chloride Treatment)		2,430.17
608	5209	Purchase of Right-of-Way & Utilities, Kinosta Access, L.G.D. of Alonsa	2.7						4,174.02
	5212	Bituminous Surfacing & Base Course Shoulders, Lauries Access Road, R.M. of Ste. Rose	0.4				0.2		42,354.67

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
608	5425	Calcium Chloride Treatment, P.R. No. 482 Westerly, R.M. of Shellmouth	2.7				2.7 (Calcium Chloride Treatment)		$ 5,811.48
Miscellaneous									
	5100	Purchase of Right-of-Way, Various Highways							27,868.40
	5101	Engineering Expenses - District 1							28,294.56
	5102	Engineering Expenses - District 2							2,488.41
	5103	Engineering Expenses - District 3							4,455.93
	5104	Engineering Expenses - District 4							15,353.60
	5105	Engineering Expenses - District 5							7,110.04
	5106	Engineering Expenses - District 6							6,362.77
	5107	Engineering Expenses - District 7							6,866.46CR.
	5108	Engineering Expenses - District 8							10,908.68
	5109	Engineering Expenses - District 9							15,799.89
	5110	Engineering Expenses - District 10							37,553.65
	5111	Engineering Expenses - District 11							20,512.97
	5112	Engineering Expenses - District 12							25,386.19
	5115	Engineering Audit Surveys, Various Provincial Roads							45,501.04
	5299	Base Course & Bituminous Pavement, Various Provincial Roads, R.M. of Rhineland							224,648.88
	5311	Shoo-fly Detour - Various Provincial Roads							26,284.81

Table No. 5

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Miscellaneous									
	5473	Automatic Railroad Grade Crossing Protection - Various Locations							$ 6,301.32
	5488	Spreading Traffic Gravel - Various Locations							8,131.06CR.
		Bridge Projects (for details see Table No. 19)							3,280,964.42
				329.2	303.3	153.3	*291.8		$42,529,505.51

* Bituminous Surfacing	36.4
Calcium Chloride Treatment	127.6
Asphalt Surface Treatment	125.9
Seal Coat	1.9
	291.8

Table No. 6

HIGHWAY CONSTRUCTION
NORTHERN ROADS
APPROPRIATION 15-6A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravel-ling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
10	N263	Clearing of Right-of-Way, Cranberry Portage - Bakers Narrows, Unorganized Territory	10.5						$ 139,666.00
	N298	Bituminous Repairs, Vicinity of Schist Lake, Unorganized Territory	9.0						5,898.36
	N369	Rock Excavation, Trout Lake Access Road, City of Flin Flon							27,563.12
283	N303	Preliminary Engineering, Purchase of Right-of-Way & Utilities, P.R. No. 282 - Saskatchewan Border, L.G.D. of Consol	11.3						63.25
	N351	Calcium Chloride Treatment, P.R. No. 282 - Saskatchewan Boundary, L.G.D. of Consol	11.0				11.0 (Calcium Chloride Treatment)		24,282.15

Table No. 6

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
289	N312	Traffic Gravel & Calcium Chloride Treatment, Grace Lake Road, Town of The Pas	1.5		1.5				$ 25,061.51
304	N300	Preliminary Engineering, Vicinity of Wanipigow River East, Rupertsland Unorganized	10.0						30,315.08
	N333	Clearing of Right-of-Way, Sand River - Manigotogan River, Rupertsland Unorganized	9.9						15,969.10
	N346	Preliminary Engineering, Wanipigow Lake Easterly, Rupertsland Unorganized	7.7						25,233.79
	N355	Calcium Chloride Treatment, O'Hanley River - Wallace Lake, Rupertsland Unorganized							4,474.98
	N366	Shoo-Fly Detour, O'Hanley River, Black River & Sandy River, Rupertsland Unorganized							34,135.30
314	N370	Grading, 1 Mile North of P.R. No. 315, E.D. of Lac du Bonnet							23,908.76

Table No. 6

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
283	N368	Stockpiling Base Course, West of The Pas, L.G.D. of Consol							$ 361,568.15
285	N288	Gravel Base Course & Asphalt Surface Treatment, Ralls Island Road, L.G.D. of Consol & Town of The Pas	1.8			1.8	1.8 (Asphalt Surface Treatment)		19,212.31
	N306	Purchase of Right-of-Way, Ralls Island Road, L.G.D. of Consol	1.6						14,827.58
	N341	Asphalt Overlay & Base Course Shoulders, Bell Avenue - Easterly, Town of The Pas & L.G.D. of Consol	3.3			3.3	3.3 (Asphalt Surface Treatment)		356,016.23
	N363	Pedestrian Corridor, Intersection 3rd Street & Ross Avenue, Town of The Pas							6,273.85
287	N316	Drainage Improvements & Sub-grade Reinforcement, Airport - Atikameg, Clearwater Provincial Park	4.3						34,827.57

Table No. 6

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
315	N356	Calcium Chloride Treatment, Bird River - Bird Lake, L.G.D. of Alexander & Rupertsland Unorganized	20.0				10.7 (Calcium Chloride Treatment)		$ 4,564.08
327	N347	Gravel Base Course & Asphalt Surface Treatment, P.T.H. No. 6 - Easterville Road, Unorganized Territory	27.5						10,150.88
375	N358	Drainage & Bituminous Levelling, P.R. No. 391 - Paint Lake, L.G.D. of Mystery Lake	3.7						19,677.32
391	N135	Slope Stabilization & Guard Rail, City of Thompson							782.94
	N301	Completion of Bridge & Approach Construction, Keewatin River Bridge, L.G.D. of Lynn Lake							5,533.20

Table No. 6

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
391	N305	Grading & Drainage Improvements, P.R. No. 610 - Jct. of Turnbull Lake Road, L.G.D. of Mystery Lake, Unorganized Territory & Town of Leaf Rapids							$ 220,012.27
	N313	Bituminous Surfacing & Shoulder Improvements, Turnbull Lake - Watsko Lake, Hughes Lake - Lynn Lake, Unorganized Territory & L.G.D. of Lynn Lake	44.8				44.8		52,781.73
	N324	Bituminous Levelling, Vicinity of Reed Lake - P.R. No. 392, Unorganized Territory	29.4						85,158.30
	N328	Grade Widening, Drainage & Stockpiling Base Course, Pipe Lake Mine Road - South Soab Mine Road, L.G.D. of Mystery Lake	22.6						36,431.74
	N339	Bituminous Levelling & Shoulder Improvements, Wekusko Jct. - Wabowden Access Road, Unorganized Territory	55.2						657,182.70

Table No. 6

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
391	N344	Grade Repairs, Gravelling & Drainage Improvements, Thompson - Suwannee River, L.G.D. of Mystery Lake	105.0		81.5				$ 193,981.02
	N345	Bituminous Levelling & Shoulder Improvement, Hughes Lake - Lynn Lake, L.G.D. of Lynn Lake & Unorganized Territory	21.0						105,662.11
	N348	Bituminous Surfacing & Base Course, P.T.H. No. 10 - Vicinity of Reed Lake, Grass River Provincial Park & Unorganized Territory	34.0						4,476.20
	N352	Calcium Chloride Treatment, P.R. No. 392 - Wekusko Jct., Unorganized Territory	11.0				11.0 (Calcium Chloride Treatment)		34,574.82
	N357	Grading, Base Course & Asphalt Surface Treatment, Vicinity of Watsko Lake - Vicinity of Hughes Lak Unorganized Territory	21.6	10.0		10.0	10.0 (Asphalt Surface Treatment)		107,120.31
	N359	Completion of Drainage & Surface Repairs, Wabowden Access - Jct. of South Soab Mine Road	22.7						89,245.45

Table No. 6

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
391 & 610	N147	Bituminous Surfacing & Rock Embankment, South Soab Mine Access - Wabowden & Wabowden Access Road, Unorganized Territory	23.8						$ 72,658.72
392	N291	Completion of Rock Embankment, Gravel Base Couse & Asphalt Surface Treatment, P.R. No. 391 - Snow Lake, L.G.D. of Snow Lake	20.5			20.5	20.5 (Asphalt Surface Treatment)		30,323.32
	N325	Bituminous Levelling & Shoulder Improvements, P.R. No. 391 - Snow Lake, L.G.D. of Snow Lake	20.5						99,313.04
	N342	Preliminary Engineering, P.R. No. 391 - Snow Lake, L.G.D. of Snow Lake	20.5						57,608.74
393	N334	Grading Repairs, Gravelling & Calcium Chloride Treatment, P.R. No. 392 - Osbourne Lake Mine, L.G.D. of Snow Lake	11.8		6.4		6.4 (Calcium Chloride Treatment)		68,053.59

Table No. 6

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
393 & 395	N318	Rock Embankment, Snow Lake, L.G.D. of Snow Lake	20.0						$ 40,431.02
394	N213	Drainage & Grade Improvements, Lynn Lake - Vanderckhove Lake, L.G.D. of Lynn Lake & Unorganized Territory	31.0						34,595.92
395	N340	Gravelling & Calcium Chloride Treatment, P.R. No. 392 - Chisel Lake Mine, L.G.D. of Snow Lake	8.1	6.0			6.0 (Calcium Chloride Treatment)		59,898.76
396	N308	Bituminous Surfacing & Slope Stabilization, P.R. No. 397 - Fox Lake Mine, L.G.D. of Lynn Lake & Unorganized Territory	28.2			28.2	28.2		51,198.30
	N365	Preliminary Engineering & Erosion Control, P.R. No. 397 - Fox Lake Mine, L.G.D. of Lynn Lake & Unorganized Territory	28.2						40,662.57

Table No. 6

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
610	N326	Subgrade Repairs & Bituminous Levelling, P.T.H. No. 10 - Man-For Plant Site, Unorganized Territory	3.0						$ 22,468.75
Miscellaneous									
	N284	Subgrade Repairs & Gravelling, Cormorant Access Road, Atikameg - Cormorant Village, Cormorant Provincial Park	24.0	24.0					5,077.36
	N319	Gravelling & Drainage Improvements, South Bay Road, Unorganized Territory	34.0	34.0					81,680.21
	N349	Grading, Grade Widening, Crushing & Gravelling, Jenpeg - Sea River Falls, Unorganized Territory	29.5	29.5	29.5				407,005.71
	N350	Settlement Repairs & Gravelling, Atikameg - Moose Lake Settlement, Unorganized Territory	28.0						6,165.33

Table No. 6

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Miscellaneous									
	N353	Calcium Chloride Treatment, P.R. No. 391 - Jenpeg, Thompson - Leaf Rapids, Lynn Lake - Berge Lake, L.G.D. of Mystery Lake, Lynn Lake, Town of Leaf Rapids, Unorganized Territory	184.0				184.0 (Calcium Chloride Treatment)		$ 114,821.42
	N354	Ferry Landing Upgrading, Matheson Island, Unorganized Territory							8,225.72
	N360	Grading, Split Lake - Stephens Lake, Unorganized Territory	42.0						3,721,168.04
	N361	Grading, Stephens Lake - Longspruce, Unorganized Territory	37.0	20.5					3,409,475.04
	N367	Stockpiling Traffic Gravel, Split Lake - Long Spruce, Unorganized Territory	79.0						333,849.04
		Bridge Projects (for details see Table No. 19)							278,157.37
		* Bituminous Surfacing 73.0							
		Calcium Chloride Treatment 229.1							
		Asphalt Surface Treatment 35.6							
		337.7		124.0	118.9	63.8	*337.7		$11,719,470.13

Table No. 8

HIGHWAY CONSTRUCTION
HIGHWAY STRENGTHENING AGREEMENT
APPROPRIATION 15-6A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
1	H133	Preliminary Engineering, P.T.H. No. 100 - Headingley, City of Winnipeg							$ 2,919.96
	H158	Preliminary Engineering, Perimeter Highway - Headingley, City of Winnipeg	3.7						4,317.91
1A	H143	Bituminous Surfacing, 11th Street - 17th Street, City of Brandon	0.4				0.4		373,014.90
5	H109	Completion of Purchase of Right-of-Way, Grade Widening & Gravelling, P.T.H. No. 19 - P.R. No. 235, R.M. of McCreary & Ste. Rose	25.7						19,945.38
	H139	Grading, Gravelling, Base Course & Bituminous Surfacing, Scott Drain Bridge Approaches, R.M. of Ste. Rose	0.8	0.8	0.8	0.8	0.8		248,092.06

Table No. 8

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
5	H140	Base Course & Bituminous Surfacing, P.R. No. 480 - P.R. No. 235 R.M. of Ste. Rose	10.9			10.9	10.9		$1,576,674.05
6	H141	Bituminous Pavement, P.T.H. No. 101 - P.R. No. 321, R.M. of Rosser	8.6				8.6		776,371.23
9A	H130	Concrete Repairs & Gutter, Main Street, R.M. of St. Andrews & Town of Selkirk	2.7						25,107.69
	H146	Preliminary Engineering, Bituminous Overlay & Concrete Curb Repair, Strathnaver Ave. - Manitoba Ave., Town of Selkirk	1.0						19,294.39
	H147	Construct Turning & Passing Lanes, Vicinity of Selkirk General Hospital, Town of Selkirk							7,441.86
10	H108	Grade Widening & Base Course, Westray - The Pas, L.G.D. of Consol & Unorganized Territory	22.3	22.3		22.3			21,691.32

Table No. 8

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
10	H116	Preliminary Engineering & Purchase of Right-of-Way, Bowsman - Birch River, R.M. of Swan River & L.G.D. of Mountain	12.6						$ 11,791.80
	H128	Base Course & Bituminous Surfacing, S. Jct. P.T.H. No. 23 - S. Jct. P.T.H. No. 2, R.M. of Whitewater & Oakland	13.7						61,888.43
	H137	Preliminary Engineering & Purchase of Right-of-Way, P.R. No. 268 - P.R. No. 277, L.G.D. of Mountain	17.9						25,357.27
	H138	Purchase of Right-of-Way, U.S. Border - Boissevain, R.M. of Morton	15.8						32,360.72
	H142	Bituminous Pavement, Boissevain - Minto, R.M. of Morton & Whitewater	13.0				13.0		2,265,473.32
	H144	Bituminous Pavement & Base Course, South of P.R. No. 282 - Town of The Pas, L.G.D. of Consol & Unorganized Territory	22.2			22.2	22.2		2,405,189.61

Table No. 8

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
10	H150	Grade Widening & Gravelling, Bowsman River - N. Jct. P.R. No. 268, R.M. of Swan River & L.G.D. of Mountain	13.0	11.0	11.0				$ 895,676.65
	H157	Construction of Auxiliary Lanes, 18th Street Brandon, Richmond - Aberdeen, City of Brandon	0.4						7,000.00
	H161	Rock Embankment, C.N.R. (Sherridon Sub.) - Mistik Creek, Unorganized Territory	4.9						2,013,274.88
12	H136	Grade Widening & Shoulder Gravel, P.R. No. 402 - West of Piney, L.G.D. of Piney & Stuartburn	11.6						45,126.63
	H154	Grading, Interchange at P.T.H. #1E., R.M. of Ste. Anne & Tache	2.2	0.8					508,279.84

Table No. 8

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
16	H069	Purchase of Right-of-Way & Utilities, Grading & Gravelling, P.T.H. No. 1 - P.T.H. No. 50, R.M. of Portage la Prairie & Westbourne	17.5	14.0	14.0				$1,518,855.08
	H124	Preliminary Engineering, Whitemud River, Gladstone - P.R. No. 352, R.M. of Westbourne & Lansdowne	12.2						500.00
	H135	Completion of Base Course & Bituminous Surfacing, P.T.H. No. 50 - Gladstone, R.M. of Westbourne	12.7						28,185.67
	H163	Preliminary Engineering, Purchase of Right-of-Way & Utilities, East of P.T.H. No. 34 - Whitemud River, R.M. of Westbourne	2.1						625.59
59	H156	Reconstruct Parking Lot & Approaches, Scale Site, R.M. of East St. Paul							154,224.80

Table No. 8

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
100	H148	Concrete Median Barrier & Bituminous Pavement, St. Mary's Road - Portage Ave., City of Winnipeg & R.M. of Macdonald	13.2				7.5		$2,794,699.14
391	H145	Base Course & Bituminous Pavement, South Soab Mine Access Road - Pipe Lake Mine Access Road L.G.D. of Mystery Lake	23.1			23.1	23.1		3,496,965.15
		Bridge Projects (for details see Table No. 19)							1,656,749.78
				48.9	25.8	79.3	86.5		$20,997,095.11

Winter Road

Table No. 29

WINTER TRUCK ROADS
CONSTRUCTION AND MAINTENANCE
APPROPRIATIONS 15-8B-1 & 15-8B-2

Work Order No.	Location	Project Kilometres	Description of Work	Expenditure
CWT 904	Vicinity of Split Lake - York Landing - Ilford	64	Construction & Maintenance	$103,408.39
905	Cross Lake - Oxford House (km 64 - Hayes River Crossing)	91	Construction & Maintenance	115,961.20
906	Cross Lake - Oxford House (Hayes River Crossing - Jct. of Oxford House to Gods Lake Road)	50	Construction & Maintenance	83,166.53
907	Oxford House - km 36	36	Construction & Maintenance	50,729.34
908	South Bay - South Indian Lake	13	Construction & Maintenance	34,010.56
909	Cross Lake - km 64	64	Construction & Maintenance	104,331.17
910	Oxford House - Gods Lake Narrows (Across Gods Lake)	6	Construction & Maintenance	14,892.32
911	km 36 - Fuel Tanks at Gods Lake Narrows	49	Construction & Maintenance	88,000.55

Table No. 29

Work Order No.	Location	Project Kilometres	Description of Work		Expenditure
CWT 913	Various Locations		Engineering & Supervision		$ 10,573.21
951	Hole River - Red Sucker Lake	858	Payment of Outstanding Invoice for 1980/81 Winter Road	(15-8B-2)	130,419.97
953	Hole River - Red Sucker Lake	846	Construction & Maintenance	(15-8B-2)	1,276,458.71
					$2,011,951.95

Appropriation Summary

15-8B-1	605,073.27
15-8B-2	1,406,878.68
	$2,011,951.95

MAINTENANCE

The following list indicates the units accomplished and man hours used on the major maintenance activities.

(a) Summer

Premix Patching	52,344	cubic yards
Spray Patching	237,584	gallons
Seal Coat Program	741	lane miles
Concrete Repairs	37,584	man hours
Dragging Gravel Roads	319,329	pass miles
Dust Control	3,159	tons calcium chloride
Mowing	94,871	acres
Sign Maintenance	43,561	man hours
Erecting New Signs	29,729	square feet

(b) Winter

Snowplowing	338,900	pass miles
Snow Clean-up	41,243	man hours
Spot Sanding	44,040	cubic yards
Spreading Chemical	44,080	pass miles
Snow Fence Erected	8,174	100 foot rolls
Winter Stand-by	40,070	man hours

A very moderate winter was experienced as far as snow fall but a considerable amount of sand and chemical was used to combat slippery road conditions.

Table No. 20

MAINTENANCE EXPENDITURES
PROVINCIAL TRUNK HIGHWAYS AND PROVINCIAL ROADS
APPROPRIATION 15-4A

	Provincial Trunk Highways	Provincial Roads	Total
Summer Maintenance	$ 5,273,642.27	$11,996,645.46	$17,270,287.73
Winter Maintenance	2,897,621.65	3,183,676.54	6,081,298.19
Bridge	519,923.93	81,514.04	601,437.97
Special Projects	3,387,177.28	1,150,509.84	4,537,687.12
Contingencies	334,714.02	423,561.91	758,275.93
Stop Gap	20,638.63	182,086.03	202,724.66
Sub Total	$12,433,717.78	$17,017,993.82	$29,451,711.60
Overheads			4,519,018.93
Vacation & Sick Leave			1,814,437.40
Traffic Control			3,043,157.64
Maintenance Management			167,427.78
Ferries			21,000.00
Personnel Safety			36,698.53
Maintenance Materials Holding Account			207,717.75
Services Rendered by Land Acquisition Branch			38,747.33
Total			$39,299,916.96

Table No. 10

MAINTENANCE CONTINGENCIES
PROVINCIAL TRUNK HIGHWAYS
APPROPRIATION 15-4A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
1	654	Bituminous Repairs, P.R. No. 259 Easterly, R.M. of Sifton, Woodworth & Wallace	22.0						$ 5,653.43
	662	Repairing Frost Bump, East Bound Lanes, Sec. 35-10-19W., City of Brandon							1,969.92
	667	Asphalt Repairs, Westbound Lanes, West Jct. P.T.H. No. 1A - P.T.H. No. 16, R.M. of Portage la Prairie	3.7						2,882.91
	675	Stabilizing & Priming Shoulders, Virden - Elkhorn, R.M. of Wallace	18.0						22,852.87
	688	Installing Subgrade Drains, Sec. 21-10-20W., R.M. of Whitehead							400.36
	693	Hand Brushing, Ontario Bdry. - Falcon Lake, Whiteshell Provincial Park							11,270.61

Table No. 10

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
1	695	Mechanical Brushing, Broken Head River - East District Boundary	40.0						$ 23,433.64
1A	676	Erosion Control, Assiniboine River, City of Brandon							16,845.68
3	689	Shoulder Repairs, R.M. of Macdonald							11,503.09
5	681	Stabilizing & Bituminous Repairs, East Jct. P.R. No. 353 - West Jct. P.R. No. 353, R.M. of North Cypress	5.0						8,284.41
5 & 10	678	Concrete Repairs, Dauphin Southerly, R.M. of Dauphin	4.0						10,842.33
10	652	Bituminous Repairs, Onanole Area - Clear Lake, L.G.D. of Park	4.0						7,325.01

Table No. 10

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
10	663	Bituminous Repairs, Intersection of 18th St. & Princess Avenue, City of Brandon							$ 4,495.80
16	668	Brush Spraying, Neepawa Easterly, R.M. of Langford							2,065.75
	715	Erosion Control, Assiniboine Valley, R.M. of Russell							10,983.96
50	665	Stabilizing & Bituminous Repairs, Vicinity of P.R. No. 278, L.G.D. of Alonsa	0.1						5,102.79
59	674	Concrete Repairs, Kirkness Road Northerly, R.M. of St. Clements							18,993.03
75	686	Shoulder Improvements for Portable Weigh Scales, R.M. of Ritchot							14,898.42

Table No. 10

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
The Bog Yard	658	Relocation of Trailer & Sewage Improvements, Unorganized Territory							$ 12,698.76
Headingley Scale	660	Parking Lot Improvements							5,138.57
Morden Yard	672	Upgrading Electrical Service, Town of Morden							1,360.00
West Hawk Lake Scale	673	Weigh Scale Repairs							7,303.25
Rosser Scale	694	Weigh Scale Repairs							2,961.38
Morris Yard	701	Insulate & Modify Calcium Storage Shed, R.M. of Morris							3,019.78
Steinbach Yard	713	Purchase Fuel Storage Tanks, R.M. of Hanover							5,545.00

Table No. 10

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Various	661	Mechanical Brushing, Various Highways, Various Locations							$ 74,777.92
	682	Drift Soil Removal, Various Highways, Various Municipalities							27,173.24
	683	Drift Soil Removal, Various Highways, Various Municipalities							13,132.11
	718	Evaluation of Plastic Snow Fence, Boissevain & Petersfield Areas							1,800.00
									$ 334,714.02

Table No. 11

MAINTENANCE SPECIAL PROJECTS
PROVINCIAL TRUNK HIGHWAYS
APPROPRIATION 15-4A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
1	527	Shoulder Repairs, P.T.H. No. 83 - P.R. No. 441, R.M. of Wallace	16.0						$ 13,272.21
	538	Asphalt Repairs, East District Boundary - P.R. No. 248, R.M. of St. Francois Xavier & Cartier	14.0						19,430.82
	553	Sealcoating, East District Boundary - East Jct. P.T.H. No. 1A, City of Brandon, R.M. of Elton, Cornwallis & North Cypress	37.0				37.0 (Seal Coat)		183,874.68
	575	Concrete Repairs, East Jct. P.T.H. No. 1A - West Jct. P.T.H. No. 1A, R.M. of Portage la Prairie	8.0						24,876.30
	576	Concrete Repairs, Norquay Beach - Dacotah, R.M. of Portage la Prairie & Cartier	19.5						27,774.78

Table No. 11

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
1	583	Asphalt Repairs, P.T.H. No. 100 - Headingley, City of Winnipeg	4.2						$ 56,433.99
	635	Asphalt & Concrete Repairs, Westbound Lanes, East Jct. P.T.H. No. 1A - West Jct. P.T.H. No. 1A., R.M. of Portage la Prairie	11.3						116,575.75
1 & 100	632	Concrete Repairs, Various Locations, City of Winnipeg, R.M. of Springfield, Macdonald & Rosser							33,523.07
2	550	Sealcoating, P.T.H. No. 5 - East District Boundary, R.M. of South Cypress & Victoria	23.3				23.3 (Seal Coat)		258,305.93
5	519	Asphalt Repairs, U.V.D. of Riding Mountain - Jct. P.T.H. No. 19, R.M. of Rosedale & McCreary	14.1						11,405.06

Table No. 11

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
5	554	Bituminous Shoulder Repairs, P.T.H. No. 2 - Carberry Industrial Park, R.M. of South Cypress & North Cypress	21.8						$ 6,200.53
6	501	Bituminous Repairs, Minago River Area, Unorganized Territory							18,399.91
	505	Bituminous Repairs, Grand Rapids Northerly, Unorganized Territory							19,088.35
	544	Sealcoating, St. Laurent - Eriksdale, R.M. of St. Laurent, Coldwell & Eriksdale	36.6				36.6 (Seal Coat)		266,173.54
7	573	Bituminous Repairs, P.R. No. 321 - P.R. No. 229, R.M. of Rockwood							30,586.59
8	570	Bituminous Repairs, P.R. No. 230 - P.R. No. 413, R.M. of St. Andrews	16.0						42,931.70

Table No. 11

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
10	506	Shoulder Repairs, Cranberry Portage - Flin Flon, Unorganized Territory	30.0						$ 4,784.72
	507	Bituminous Repairs, Cranberry Portage - Flin Flon, Unorganized Territory							20,501.18
	557	Sealcoating, P.R. No. 277 - Overflowing River, L.G.D. of Mountain, The Pas Unorganized	35.0				35.0 (Seal Coat)		232,600.35
	571	Shoulder Repairs, P.T.H. No. 24 Southerly, R.M. of Odanah & Saskatchewan	13.0						3,567.93
	585	Drainage Repairs, Vicinity of Erickson, R.M. of Clanwilliam	0.4						538.08
10 & 16	521	Erosion Control, Vicinity of C.P.R. Underpass, R.M. of Minto							6,156.82
11	567	Bituminous Repairs, P.R. No. 313 - Great Falls, R.M. of Lac du Bonnet & L.G.D. of Alexander	14.0						16,132.84

Table No. 11

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
12	584	Asphalt Repairs, P.T.H. No. 1, Eastbound Lanes, P.R. No. 207 - P.T.H. No. 12, R.M. of Springfield, Tache & Ste. Anne	15.8						$ 33,399.10
15	569	Sealcoating, P.T.H. No. 12 - P.T.H. No. 11, L.G.D. of Reynolds	20.5				20.5 (Seal Coat)		155,156.04
16	520	Stabilizing Gravel Shoulders, Various Locations, U.V.D. of Basswood, Newdale & Strathclair	5.0						787.53
	574	Bituminous Repairs, P.T.H. No. 1 - P.T.H. No. 50, R.M. of Portage la Prairie & Westbourne	18.0						19,668.89
20	556	Sealcoating, South District Boundary - P.R. No. 272, L.G.D. of Mountain	21.3				21.3 (Seal Coat)		180,996.94
	558	Bituminous Repairs, P.T.H. No. 5 - Dauphin Beach, R.M. of Ochre River	7.7						15,103.25

Table No. 11

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
20	559	Sealcoating, P.R. No. 364 - North District Boundary, R.M. of Mossey River	10.3				10.3 (Seal Coat)		$ 79,102.76
21	530	Sealcoating, P.T.H. No. 16 - P.T.H. No. 45 & Oakburn Access, R.M. of Shoal Lake	9.3				9.3 (Seal Coat)		71,265.38
23	524	Sealcoating, P.T.H. No. 34 - P.T.H. No. 5, R.M. of Lorne & Argyle	28.4				28.4 (Seal Coat)		245,909.40
34	523	Sealcoating, North Jct. P.T.H. No. 3 - North District Boundary, R.M. of Louise & Lorne	25.8				25.8 (Seal Coat)		219,943.23
44	565	Bituminous Repairs, P.R. No. 307 - P.R. No. 301, Springfield Unorganized	19.0						29,364.15
45	542	Erosion Control, Birdtail Creek Valley, R.M. of Rossburn							4,401.86

Table No. 11

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
50	560	Sealcoating, South District Boundary, Northerly, L.G.D. of Alonsa	15.2				15.2 (Seal Coat)		$ 58,296.37
52	513	Bituminous Repairs, P.T.H. No. 12 - P.T.H. No. 59, R.M. of Hanover	13.3						51,692.29
68	546	Sealcoating, P.T.H. No. 6 - P.R. No. 512 & P.T.H. No. 7 - P.T.H. No. 8, R.M. of Bifrost & Eriksdale	21.8				21.8 (Seal Coat)		186,206.61
75	514	Asphalt Repairs, Ste Agathe - North District Boundary - R.M. of Ritchot	10.0						42,530.74
	536	Bituminous Repairs, City of Winnipeg Boundary - South District Boundary, R.M. of Ritchot	3.5						16,402.74
75 & 29	516	Maintenance of Roadside Park & Landscaped Areas, Town of Emerson							14,049.64

Table No. 11

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Miles of Gravelling	Miles of Stabilized Base Course	Miles of Bituminous Surfacing	Miles of Concrete	Expenditure
83	539	Shoulder Repairs, P.T.H. No. 24 Southerly, R.M. of Miniota	1.9						$ 11,714.32
100 & 101	537	Bituminous Shoulder Repairs, Various Locations, City of Winnipeg & Various Municipalities							30,139.48
101	630	Asphalt & Concrete Repairs, P.T.H. No. 1E - P.R. No. 300, R.M. of Springfield & City of Winnipeg							183,526.87
	631	Asphalt & Concrete Repairs, P.T.H. No.9 - P.T.H. No. 59, R.M. of East & West St. Paul							76,195.38
	634	Concrete Repairs, P.T.H. No. 8 - P.T.H. No. 9, R.M. of West St. Paul	4.0						32,014.45
Various	526	Spot Sealcoating, Various Locations Various Municipalities	3.8				3.8 (Seal Coat)		59,934.48

Table No. 11

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Various	535	Bituminous Repairs, Various Highways, Various Municipalities & City of Winnipeg							$ 118,696.49
	633	Mobilization of Concrete Repair Crews							37,543.76
							*288.3		$3,387,177.28

* Seal Coat

Table No. 13

MAINTENANCE STOP GAP
PROVINCIAL TRUNK HIGHWAY
APPROPRIATION 15-4A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
5	759	Culvert Installation & Bituminous Repairs, Whitemore Avenue, Town of Dauphin							$ 4,886.99
23	765	Stabilizing Gravel & Bituminous Repairs, Intersection of Lucinda St., Town of Morris							4,500.00
50	757	Levelling of Waste Material, Various Locations, L.G.D. of Alonsa	2.5						2,912.47
100	754	Watering New Plantings in Tree Beds, Various Locations, Various Municipalities							3,069.05

Table No. 13

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
100	760	Drainage Repairs, Vicinity of Assiniboine River, City of Winnipeg							$ 2,622.26
West Service Road	767	Stabilizing & Gravelling, Adjacent to P.T.H. No. 100, Vicinity of Roblin Boulevard, City of Winnipeg	0.7		0.7				2,647.86
					0.7				$ 20,638.63

Table No. 14

MAINTENANCE CONTINGENCIES
PROVINCIAL ROADS
APPROPRIATION 15-4A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
212	664	Settlement of Claim For Damages to Automobile							$ 964.88
231	655	Culvert Repair, U.V.D. of Fraserwood, L.G.D. of Armstrong							4,586.85
235	666	Stabilizing Gravel & Bituminous Repairs, Lake Manitoba Narrows - P.R. No. 360, L.G.D. of Alonsa	37.0						20,305.05
256 & 251	684	Bituminous Repairs, Various Locations, R.M. of Edward	18.3						51,942.93
283	671	Stabilizing Gravel & Application of Calcium Chloride, P.R. No. 282 - Saskatchewan Boundary, L.G.D. of Consol	10.1				10.1 (Calcium Chloride Treatment)		25,865.61

Table No. 14

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
304 & Nopiming Road	670	Chemical Brush Control, Various Locations, E.D. of Rupertsland							$ 20,637.71
312 & 301	692	Mechanical Brushing, Various Locations, Whiteshell Provincial Park							3,001.50
317	680	Sealcoating, P.R. No. 502 - P.T.H. No. 11, R.M. of Lac du Bonnet	0.6				0.6 (Seal Coat)		4,957.55
330	687	Stabilizing Gravel, La Salle - Domain, R.M. of Macdonald	6.0						2,838.07
350	677	Stabilizing Gravel, Sec. 7-9-10W., R.M. of Victoria							1,847.13
366	702	Purchase Culvert, North of Sec. 31-22-27W., R.M. of Shellmouth							12,210.98

Table No. 14

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
391	659	Replacement of Ornamental Trees, Mystery Lake Road - Thompson, L.G.D. of Mystery Lake							$ 910.00
Carberry Yard	650	To Complete Construction of Sign Storage Shed & Calcium Storage Shed							11,139.31
Dauphin Yard	656	Parking Lot Improvements, R.M. of Dauphin							6,849.39
Miller Road Yard	657	Relocating Existing Car Plugs & Replanting New Trees at Cairn Area, P.T.H. No. 6 & P.R. No. 236, R.M. of West St. Paul & Rosser							4,476.87
Bisset Yard	685	Maintenance Yard Site Preparation & Construction of Snowplow Storage Shed, Rupertsland Unorganized							47,927.58

Table No. 14

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
St. Pierre & Dominion City Yards	679	Construction of Sodium Chemical Storage Bins, R.M. of De Salaberry & Franklin							$ 7,725.21
Piney Yard	691	Construction of Sodium Chemical Storage Bin, L.G.D. of Piney							5,526.76
Alonsa Yard	696	Construct Sodium Storage Bin Cover, L.G.D. of Alonsa							2,035.49
McCreary Yard	699	Repair & Renovate Office Building, R.M. of McCreary							2,819.01
Sandy Lake Yard	700	Construction of Concrete Floor in Snowplow Storage Shed							10,235.52
Meadow Portage Yard	703	Purchase Chain Link Fence Materials, NW¼ Sec. 13-31-16W., Ste. Rose Unorganized							3,679.25

Table No. 14

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Rorketon Yard	705	Construction of Concrete Floor in Grader Storage Shed, R.M. of Lawrence							$ 6,213.43
Pine River Yard	707	Construction of Concrete Floor in Snowplow Storage Shed, L.G.D. of Mountain							4,389.92
Birch River Yard	708	Construction of Concrete Floor in Snowplow Shed, L.G.D. of Mountain							4,044.68
Novra Access	709	Mechanical Brushing	0.9						833.48
Fisher Branch Yard	719	Supplying Fuel Dispensing System, L.G.D. of Fisher							3,587.85
Kelsey Blvd.	720	General Maintenance, Bernier St. - Airport Terminal L.G.D. of Churchill	2.6						5,280.76

Table No. 14

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Various Yards	690	Purchase of Asphalt Storage Tanks, Various Locations, R.M. of Pipestone, Wallace & Daly							$ 12,803.25
	704	Repair Equipment & Chemical Storage Buildings & Upgrade Electrical Service, R.M. of Siglunes & L.G.D. of Fisher							4,784.34
Various	653	Mobilization of Two Seal Coat Crews							7,303.52
	669	Wheel Modifications - Senstek Portable Weigh Scale							1,900.00
	697	Purchase Oil Fired Furnaces for Snowplow Sheds, Various Locations							5,599.82
	706	Purchase Automatic Controls for Asphalt Mixers, Various Locations							21,896.95
	710	Certification of Weigh Scales							336.90
	711	Hand Brushing, Various Highways, Various Locations							13,129.15

Table No. 14

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Various	712	Purchase of Portable Weigh Scales							$ 31,205.00
	716	Installation of Guard Rail & Sign Posts, Various Highways, Various Locations							10,743.01
	717	Purchase of Steam Boilers							13,230.00
		Bridge Projects (For Details See Table No. 19)							23,797.20
							* 10.7		$ 423,561.91

* Seal Coat 0.6
Calcium Chloride 10.1
10.7

Table No. 15

MAINTENANCE SPECIAL PROJECTS
PROVINCIAL ROADS
APPROPRIATION 15-4A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
201 & Caliento Access	512	Bituminous Repairs & Sealcoating, P.T.H. No. 59 - P.R. No. 402 & Caliento Access, L.G.D. of Stuartburn	26.0				26.0 (Seal Coat)		$ 208,957.51
221	534	Shoulder Gravelling, City of Winnipeg Boundary - North Jct. P.R. No. 334, R.M. of Rosser	10.5		10.5				20,260.10
229	548	Grading & Gravelling, P.R. No. 228 - P.R. No. 518, R.M. of Coldwell, St. Laurent & L.G.D. of Armstrong							9,355.36
233 & 234	549	Bituminous Repairs, Riverton - Hecla Provincial Park Gate, R.M. of Bifrost & Unorganized Territory	18.3						33,466.86

Table No. 15

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
233 & 234	582	Gravelling, Gull Harbour Park Gate - Beaver Creek Southerly, Hecla Provincial Park & Unorganized Territory	48.8		48.8				$ 28,418.18
240	577	Sealcoating, City of Portage la Prairie, Dickens Ave. - Delta, R.M. of Portage la Prairie	14.5				14.5 (Seal Coat)		115,848.87
242	579	Sealcoating, U.S. Border Northerly, R.M. of Pembina	10.0				10.0 (Seal Coat)		102,469.71
244	578	Sealcoating, P.T.H. No. 23 - North Jct. P.R. No. 245, R.M. of Lorne	10.0				10.0 (Seal Coat)		87,412.03
248 & 241	572	Bituminous Repairs, P.T.H. No. 1 - P.T.H. No. 26, R.M. of Cartier	9.0						24,563.18
256	528	Stabilizing & Gravelling, P.T.H. No. 2 Northerly, R.M. of Pipestone	8.0		8.0				11,730.72

Table No. 15

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
274 & 267	561	Bituminous Repairs, P.T.H. No. 5 - North Jct. P.R. No. 267, R.M. of Gilbert Plains	14.9						$ 9,280.95
275	555	Bituminous Repairs, P.T.H. No. 10A - P.R. No. 588, R.M. of Swan River	8.0						18,942.49
276	562	Bituminous Repairs, P.T.H. No. 5 - P.R. No. 480, R.M. of Ste. Rose & Lawrence	8.0						5,713.72
303	580	Bituminous Repairs & Sealcoating, P.T.H. No. 59 - Otterburne, R.M. of De Salaberry	3.5				3.5 (Seal Coat)		32,386.83
304	566	Sealcoating, P.T.H. No. 59 - P.T.H. No. 11, L.G.D. of Alexander & R.M. of St. Clements	25.0				25.0 (Seal Coat)		188,782.56

Table No. 15

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
307	564	Bituminous Repairs, P.T.H. No. 11 - Otter Falls, R.M. of Whitemouth & Springfield Unorganized	12.7						$ 18,348.14
311	515	Bituminous Repairs, Blumenort Westerly, R.M. of Hanover	5.0						20,678.65
325	547	Erosion Control, Bottle Creek Easterly, L.G.D. of Fisher & Peguis Indian Reserve	1.0						4,847.59
	581	Gravelling, P.R. No. 224 - P.R. No. 234, L.G.D. of Fisher	22.2		22.2				13,319.61
351	551	Bituminous Repairs, East Jct. P.T.H. No. 1 - West Jct. P.T.H. No. 1, R.M. of North Cypress & Town of Carberry	21.9						22,640.18

Table No. 15

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
353	552	Bituminous Repairs, P.T.H. No. 5 - P.R. No. 464 & P.T.H. No. 5 - Wellwood, R.M. of North Cypress	7.0						$ 8,399.86
366	563	Bituminous Repairs, P.T.H. No. 5 Northerly, R.M. of Grandview	5.2						4,927.06
391	500	Bituminous Repairs, Leaf Rapids - Lynn Lake & Town of Leaf Rapids, Unorganized Territory	65.0						21,522.09
	502	Brushing, Pipe Lake - Thompson, L.G.D. of Mystery Lake	14.0						4,219.57
392	510	Bituminous Repairs, Various Locations, L.G.D. of Snow Lake	20.0						18,984.77
393 & 395	508	Brushing, Various Locations, L.G.D. of Snow Lake	20.0						1,154.75

Table No. 15

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
394	503	General Maintenance, Vandekerckhove Lake - Co-Op Point, Unorganized Territory	31.0						$ 7,500.00
476 & 568	531	Gravelling, P.T.H. No. 83 - P.T.H. No. 42 & P.T.H. No. 16 - P.R. No. 254, R.M. of Ellice & Silver Creek	21.0		21.0				8,546.99
545	540	Stabilizing Gravel, P.T.H. No. 41 - Saskatchewan Boundary, R.M. of Ellice	5.5						7,091.00
Gypsumville Yard	504	Repairs to Storage Buildings, L.G.D. of Grahamdale							6,076.80
Hadashville Yard	518	Additional Land Purchase & Improvements, L.G.D. of Reynolds							8,419.00
Shoal Lake Yard	541	Replace Roof on Salt Storage Bin, R.M. of Shoal Lake							1,038.29
Riverton Yard	543	Replace Roof on Office Building, R.M. of Bifrost							3,131.90

Table No. 15

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Poplarfield Yard	545	Construction of Salt Bin, L.G.D. of Fisher							$ 6,272.56
Various Yards	517	Installation of Asphalt Storage Tanks, Various Locations							11,705.60
Various	511	General Maintenance, Various Man-for Roads, Unorganized Territory	100.2						31,430.87
	522	General Maintenance, International Peace Garden Road, International Peace Garden							6,295.08
	529	Stabilizing & Bituminous Repairs, Bridge Approaches & Railway Crossings, Various Locations, R.M. of Pipestone, Wallace & Archie							9,875.41
	568	Gravelling, Various Highways, Various Locations, R.M. of Whitemouth, Lac du Bonnet & Rupertsland Unorganized							6,495.00
					110.4		*89.0		$1,150,509.84

* Seal Coat 89.0

Table No. 17

MAINTENANCE STOP GAP
PROVINCIAL ROADS
APPROPRIATION 15-4A

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
204	758	Drainage Repairs, Various Locations, R.M. of St. Clements							$ 4,874.06
221	756	Stabilizing Excavation Material Adjacent to P.R. No. 221, P.T.H. No. 7 - Sturgeon Road, City of Winnipeg, R.M. of Rosser	1.8						17,739.66
233	769	Grade Stabilizing & Gravelling, Hecla Island Provincial Park, Unorganized Territory	15.8		15.8				15,738.00
235	752	Repair Bridge Approaches, Lake Manitoba Causeway, R.M. of Siglunes							3,343.62
304	753	Drainage Improvements, Various Locations, L.G.D. of Alexander							4,983.79

Table No. 17

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
304	764	Embankment Slide Repairs, E.D. of Rupertsland							$ 5,093.13
314	750	Drainage Repairs, P.R. No. 315 Northerly, Rupertsland Unorganized							5,005.95
	763	Grading & Gravelling, P.R. No. 315 Northerly, E.D. of Rupertsland							12,945.59
	766	Drainage Improvements, P.R. No. 315 Northerly, L.G.D. of Alexander							9,005.11
328	755	Erosion Control & Drainage Improvements, Various Locations, Unorganized Territory	0.6						3,105.80
391	768	Stabilizing Gravel, Various Locations, Leaf Rapids - Lynn Lake, Unorganized Territory, L.G.D. of Lynn Lake	65.0						31,017.32

Table No. 17

Highway	Work Order No.	Nature & Location of Project	Project Miles	Miles of Grading	Gravelling	Stabilized Base Course	Bituminous Surfacing	Concrete	Expenditure
Easterville Road	751	Stabilizing Gravel, P.T.H. No. 10 - P.R. No. 327, Unorganized Territory	55.0						$ 54,225.76
Floodway Control Structure Road	761	Purchase of HF 250 Asphalt for Sealcoating, City of Winnipeg							3,138.16
St. Laurent Access	762	Bituminous Repairs, R.M. of St. Laurent	4.8						11,870.08
					15.8				$ 182,086.03

Table No. 21

MAINTENANCE
PROVINCIAL TRUNK HIGHWAYS
APPROPRIATION 15-4A

Highway	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
1	289.2	$ 779,435.90	$ 467,044.44	$1,246,480.34	$4,310
1A	19.4	54,034.17	58,501.45	112,535.62	5,801
2	195.7	182,717.44	143,608.58	326,326.02	1,667
3	246.5	311,351.51	110,649.46	422,000.97	1,712
3A	7.0	10,153.02	2,393.72	12,546.74	1,792
5	245.4	225,664.63	131,978.95	357,643.58	1,457
5A	4.4	1,331.60	-	1,331.60	303
6	365.6	244,675.13	199,541.45	444,216.58	1,215
7	65.0	95,519.98	25,442.86	120,962.84	1,861
8	72.8	134,972.38	31,129.31	166,101.69	2,282
9	52.5	111,029.28	49,152.60	160,181.88	3,051
9A	4.8	10,346.06	18,904.47	29,250.53	6,094
10	451.3	487,822.79	474,863.48	962,686.27	2,133
10A	7.5	22,011.28	26,012.20	48,023.48	6,403
11	91.2	92,574.98	36,360.16	128,935.14	1,414
12	161.1	233,315.59	119,771.24	353,086.83	2,192
13	31.3	35,583.28	20,106.47	55,689.75	1,779
14	31.3	40,347.82	11,494.69	51,842.51	1,656
15	47.4	65,776.39	22,041.52	87,817.91	1,853
16	162.0	194,079.10	48,626.23	242,705.33	1,498
16A	5.6	6,464.39	13,869.07	20,333.46	3,631
18	34.4	35,362.48	23,091.34	58,453.82	1,699
19	3.1	5,329.65	167.62	5,497.27	1,773
20	105.6	136,441.60	43,067.31	179,508.91	1,700
20A	3.2	4,278.23	4,999.90	9,278.13	2,899
21	109.5	105,535.14	45,030.76	150,565.90	1,375
22	13.0	6,295.40	19,347.89	25,643.29	1,973
23	165.8	201,812.14	79,648.99	281,461.13	1,698
24	50.0	43,144.09	15,849.45	58,993.54	1,180
25	17.5	16,601.71	9,127.74	25,729.45	1,470
26	40.0	51,704.50	22,643.64	74,348.14	1,859
27	1.8	2,728.60	2,927.10	5,655.70	3,142
29	0.3	241.18	1,355.19	1,596.37	5,321
30	13.6	9,899.12	7,258.85	17,157.97	1,262
31	14.1	14,961.97	8,062.73	23,024.70	1,633
32	14.1	9,176.74	4,192.70	13,369.44	948
34	77.2	107,733.89	25,703.26	133,437.15	1,729
41	43.9	50,077.22	20,769.69	70,846.91	1,614
42	32.6	42,472.03	13,841.61	56,313.64	1,727
44	73.9	93,719.26	75,487.39	169,206.65	2,290
45	65.9	79,703.84	8,940.56	88,644.40	1,345
49	1.0	144.90	567.55	712.45	712

Table No. 21

Highway	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
50	76.7	$ 91,811.88	$ 25,407.85	$ 117,219.73	$1,528
52	21.8	42,762.93	35,748.24	78,511.17	3,601
57	1.0	963.88	587.55	1,551.43	1,551
59	118.0	185,047.69	85,896.96	270,944.65	2,296
67	13.2	16,613.78	4,337.32	20,951.10	1,587
68	50.4	63,922.30	7,926.33	71,848.63	1,426
75	57.0	83,056.04	52,358.16	135,414.20	2,376
83	207.0	204,212.81	94,713.13	298,925.94	1,444
89	6.2	8,371.65	7,172.06	15,543.71	2,507
100	24.8	111,560.61	74,775.93	186,336.54	7,514
101	25.0	108,748.29	65,124.50	173,872.79	6,955
	4,038.6	$5,273,642.27	$2,897,621.65	$8,171,263.92	$2,023

*The "Cost per Mile" is rounded off to the nearest dollar

Table No. 22

SUMMARY OF MILEAGE ON PROVINCIAL TRUNK HIGHWAYS BY SURFACE

P.T.H. No.	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Mileage
1	29.9	259.3	-	-	-	289.2
1A	3.1	16.0	-	-	-	19.1
2	30.7	165.0	-	-	-	195.7
3	42.8	132.2	5.1	66.4	-	246.5
3A	-	-	7.0	-	-	7.0
5	2.6	148.8	28.3	65.7	-	245.4
5A	1.3	3.1	-	-	-	4.4
6	-	365.6	-	-	-	365.6
7	11.1	53.9	-	-	-	65.0
8	5.3	66.8	-	0.7	-	72.8
9	2.7	49.5	-	0.3	-	52.5
9A	2.8	2.0	-	-	-	4.8
10	0.2	439.7	1.2	10.2	-	451.3
10A	-	7.5	-	-	-	7.5
11	-	78.2	-	13.0	-	91.2
12	-	119.4	28.5	13.2	-	161.1
13	-	31.3	-	-	-	31.3
14	10.4	20.9	-	-	-	31.3
15	11.6	15.3	-	20.5	-	47.4
16	-	162.0	-	-	-	162.0
16A	-	5.6	-	-	-	5.6
18	-	15.5	7.9	11.0	-	34.4
19	-	-	-	-	3.1	3.1

Table No. 22

P.T.H. No.	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Mileage
20	-	24.7	21.8	51.5	7.6	105.6
20A	-	3.2	-	-	-	3.2
21	-	2.6	-	106.9	-	109.5
22	-	0.5	-	12.5	-	13.0
23	29.3	35.7	-	100.8	-	165.8
24	-	4.9	-	45.1	-	50.0
25	-	17.5	-	-	-	17.5
26	0.6	39.4	-	-	-	40.0
27	-	1.8	-	-	-	1.8
29	0.3	-	-	-	-	0.3
30	6.7	6.9	-	-	-	13.6
31	-	-	-	14.1	-	14.1
32	-	14.1	-	-	-	14.1
34	-	6.0	-	71.2	-	77.2
41	-	3.0	6.6	31.9	2.4	43.9
42	-	4.8	-	27.8	-	32.6
44	-	55.2	-	18.7	-	73.9
45	-	-	-	65.9	-	65.9
49	-	-	-	1.0	-	1.0
50	-	1.1	40.3	35.3	-	76.7
52	-	19.1	2.7	-	-	21.8
57	-	-	-	1.0	-	1.0
59	13.5	79.6	-	24.9	-	118.0
67	-	3.0	-	10.2	-	13.2
68	-	1.0	-	49.4	-	50.4
75	0.9	56.1	-	-	-	57.0
83	-	154.8	0.7	51.5	-	207.0
89	-	-	6.2	-	-	6.2
100	18.3	6.5	-	-	-	24.8
101	23.9	1.1	-	-	-	25.0
	248.0	2,700.2	156.3	920.7	13.1	*4,038.3

*These mileages compiled as of January 1, 1982

Table No. 26

MAINTENANCE
PROVINCIAL ROADS
APPROPRIATION 15-4A

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
200	Emerson - P.T.H. No. 100	59.9	$ 75,722.95	$ 43,047.21	$118,770.16	$1,983
201	Piney - P.T.H. No. 34	145.1	201,631.20	54,284.13	255,915.33	1,764
202	Birds Hill - Lockport	9.3	5,014.56	1,802.02	6,816.58	733
203	Piney - Woodridge - P.T.H. No. 12	28.8	33,243.08	9,123.16	42,366.24	1,471
204	P.T.H. No. 101 - East Selkirk	18.4	43,001.15	22,473.26	65,474.41	3,558
205	Sarto - Sperling	50.6	106,570.00	26,174.38	132,744.38	2,623
206	P.T.H. No. 52 - Lockport	37.2	56,678.75	18,209.41	74,888.16	2,013
207	East of Ste. Anne - P.T.H. No. 1E. - P.R. No. 213	35.5	33,430.59	39,461.30	72,891.89	2,053
208	Vita - P.T.H. No. 12	10.7	6,126.47	3,155.46	9,281.93	867
209	Vita - Emerson	28.7	44,880.52	6,535.55	51,416.07	1,791
210	P.T.H. No. 12 - Ste. Anne - Ile des Chenes	63.9	64,404.91	36,532.92	100,937.83	1,580
211	Pinawa - P.T.H. No. 11	8.7	6,634.66	4,259.75	10,894.41	1,252
212	P.R.No. 206 - East Selkirk	14.9	30,915.97	4,706.88	35,622.85	2,391
213	Hazelridge - P.T.H. No. 59	16.1	29,014.08	6,787.45	35,801.53	2,224
214	P.T.H. No. 44 - Milner Ridge - P.T.H. No. 11	16.1	10,429.33	6,537.16	16,966.49	1,054
215	Beausejour - P.T.H. No. 12	6.1	8,440.71	10,819.90	19,260.61	3,157
216	P.T.H. No. 59 - New Bothwell	21.6	36,783.33	8,425.25	45,208.58	2,093
217	Rosa - St. Jean Baptiste	23.5	32,786.94	3,509.09	36,296.03	1,545
218	Ridgeville - St. Malo	18.3	32,626.99	6,028.89	38,655.88	2,112
220	P.T.H. No. 9 - P.R. No. 223	12.6	23,059.89	2,535.94	25,595.83	2,031
221	P.T.H. No. 101 - Rosser - P.T.H. No. 26	29.8	54,253.06	10,217.90	64,470.96	2,163

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
222	Gimli - Hnausa	19.5	$ 28,700.50	$ 4,862.55	$ 33,563.05	$1,721
223	Selkirk - P.T.H. No. 7	14.8	24,176.46	4,300.59	28,477.05	1,924
224	P.R. No. 325 - Fisher Bay	28.0	47,403.56	3,073.04	50,476.60	1,803
225	Whytewold - P.T.H. No. 8	3.9	1,919.46	4,262.66	6,182.12	1,585
226	P.T.H. No. 68 - P.R. No. 233	9.2	9,415.32	1,210.64	10,625.96	1,155
227	Warren - Westbourne	42.9	77,118.77	7,437.80	84,556.57	1,971
228	P.T.H. No. 8 - P.R. No. 325	76.0	61,780.65	9,253.78	71,034.43	935
229	Winnipeg Beach - Clarkleigh	47.3	54,506.31	9,948.81	64,455.12	1,363
230	P.T.H. No. 27 - Selkirk	6.6	5,180.24	4,794.27	9,974.51	1,511
231	Gimli - Narcisse	24.1	22,725.97	3,745.16	26,471.13	1,098
232	Matlock - Winnipeg Beach	6.2	7,437.30	4,254.08	11,691.38	1,886
233	Gull Harbour - Fisher Branch	60.6	73,930.82	10,968.05	84,898.87	1,401
234	Riverton - Matheson Island	64.6	99,494.67	9,249.07	108,743.74	1,683
235	Mulvihill - Lake Manitoba Narrows - Ste. Rose du Lac	79.5	113,614.32	23,759.31	137,373.63	1,728
236	P.T.H. No. 101 - Balmoral	22.0	33,271.74	3,526.30	36,798.04	1,673
237	Moosehorn - Spearhill	5.4	9,342.13	667.98	10,010.11	1,854
238	The River Road - Lockport	6.8	14,590.61	11,991.19	26,581.80	3,909
239	Grahamdale - Steep Rock	12.5	16,566.14	1,753.26	18,319.40	1,466
240	Darlingford - Delta	76.5	147,578.45	32,922.03	180,500.48	2,359
241	P.T.H. No. 100 - St. Eustache	27.3	71,551.05	23,175.64	94,726.69	3,470
242	Snowflake - Lake Manitoba	95.6	146,615.08	35,437.92	182,053.00	1,904
243	Emerson - Brown	46.5	113,497.29	19,370.82	132,868.11	2,857
244	Manitou - North of Rathwell	41.3	72,411.32	15,766.76	88,178.08	2,135
245	Carman - P.R. No. 258	59.7	86,748.17	22,425.87	109,174.04	1,829
246	St. Joseph - P.T.H. No. 75 - P.R. No. 200	33.1	74,578.67	12,905.66	87,484.33	2,643
247	P.T.H. No. 75 - Elm Creek	40.5	92,346.93	17,735.89	110,082.82	2,718

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
248	Rosenort - P.T.H. No. 6	88.7	$104,830.54	$ 39,478.79	$144,309.33	$1,627
249	P.T.H. No. 26 - Macdonald	18.4	30,059.52	4,968.46	35,027.98	1,904
250	Souris - Rivers -P.R. No. 359	80.3	162,197.05	26,285.37	188,482.42	2,347
251	Goodlands - Saskatchewan Boundary	35.8	39,115.52	15,029.19	54,144.71	1,512
252	P.T.H. No. 3 - Reston - Hargrave	52.0	69,529.50	6,042.00	75,571.50	1,453
253	Pilot Mound - P.T.H. No. 18	38.1	49,961.66	6,024.77	55,986.43	1,469
254	P.R. No. 251 - Oak Lake - P.T.H. No. 83	162.9	231,647.42	50,914.32	282,561.74	1,735
255	Oak Lake Resort - Saskatchewan Boundary	32.7	51,434.01	7,456.01	58,890.02	1,801
256	United States Boundary-Elkhorn-McAuley	99.0	128,711.24	23,273.49	151,984.73	1,535
257	Virden - Saskatchewan Boundary	23.2	27,652.71	11,474.12	39,126.83	1,686
259	Wheatland - Virden	35.0	31,566.55	12,834.07	44,400.62	1,269
260	P.T.H. No. 4 - Alonsa	45.3	58,667.40	6,856.12	65,523.52	1,446
261	Amaranth - Riding Mountain	32.8	46,110.98	9,036.06	55,147.04	1,681
262	Junction P.T.H. Nos. 10 & 24 - Riding Mountain National Park	38.9	67,726.48	14,650.16	82,376.64	2,118
263	Scandinavia - P.R. No. 270	18.3	15,034.01	3,087.69	18,121.70	990
265	Lake Manitoba - Clanwilliam	57.8	93,576.94	9,850.73	103,427.67	1,789
266	Bowsman - Birch River	14.8	31,010.12	3,133.40	34,143.52	2,307
267	P.T.H. No. 20 - Sifton - P.R. No. 366	31.6	35,189.49	8,370.51	43,560.00	1,378
268	P.T.H. No. 10 - Birch River	28.3	23,340.95	17,613.17	40,954.12	1,447
269	P.R. No. 490 - Ethelbert	42.6	78,987.09	14,069.29	93,056.38	2,184
270	P.T.H. No. 1W.- Basswood - P.R. No. 263	55.2	66,611.13	8,624.92	75,236.05	1,363
271	P.T.H. No. 20 - Pine River	20.1	47,585.35	8,390.46	55,975.81	2,785
272	Camperville - Duck Bay	13.4	42,570.36	3,170.53	45,740.89	3,413
273	Fishing River - P.T.H. No. 10	14.9	26,714.99	2,436.20	29,151.19	1,956
274	P.T.H. No. 5 & 10 - Gilbert Plains - Ethelbert	55.3	99,552.34	39,958.23	139,510.57	2,523

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
275	Swan River - Saskatchewan	14.5	$ 7,337.49	$ 4,928.26	$ 12,265.75	$ 846
276	Ste. Rose du Lac - Skownan	72.1	105,670.92	14,679.72	120,350.64	1,669
277	P.T.H. No. 10 - Westgate	25.8	22,556.42	27,847.11	50,403.53	1,954
278	P.T.H. No. 50 - Shergrove	25.9	58,262.72	3,049.56	61,312.28	2,367
279	Bowsman - Whitefish Lake	20.4	36,714.02	9,892.93	46,606.95	2,285
282	Westray - Carrot River	14.8	20,183.69	3,536.73	23,720.42	1,603
283	The Pas - Saskatchewan Boundary	24.7	82,568.23	11,611.71	94,179.94	3,813
285	Rahl's Island - The Pas	9.5	21,357.59	15,722.15	37,079.74	3,903
287	Clearwater Lake - P.T.H. No. 10	11.8	37,736.77	7,174.56	44,911.33	3,806
289	P.R. No. 285 - Grace Lake	2.4	1,676.71	2,458.98	4,135.69	1,723
291	Flin Flon - Channing Lake	2.8	15,254.54	2,998.55	18,253.09	6,519
300	St. Anne's Road	3.3	1,774.60	1,969.92	3,744.52	1,135
301	Falcon Lake - West Hawk Lake	7.2	5,946.22	3,799.89	9,746.11	1,354
302	La Broquerie - Beausejour	40.2	83,153.48	7,868.57	91,022.05	2,264
303	La Broquerie - P.R. No. 200	32.9	82,933.72	11,978.50	94,912.22	2,885
304	P.T.H. No. 59 - Wadhope	125.5	189,358.22	36,434.43	225,792.65	1,799
305	P.T.H. No. 59 - Ste. Agathe - Junction P.T.H. Nos. 1 & 4	93.4	234,594.54	32,952.85	267,547.39	2,865
306	P.T.H. No. 15 - Garson	13.3	25,518.24	1,781.62	27,299.86	2,053
307	P.T.H. No. 44 - Seven Sisters Falls	48.6	27,159.31	22,957.77	50,117.08	1,031
308	Sprague - East Braintree	63.6	54,687.37	16,307.02	70,994.39	1,116
309	P.R. No. 307 - Big Whiteshell Lake	7.6	3,569.50	4,089.71	7,659.21	1,008
310	United States Boundary - South Junction	2.5	539.30	1,712.83	2,252.13	901
311	Blumenort - P.R. No. 200	25.3	26,730.39	18,707.10	45,437.49	1,796
312	Caddy Lake - P.T.H. No. 44	3.4	5,431.61	3,560.47	8,992.08	2,645
313	Pointe du Bois - P.T.H. No. 11	25.2	41,141.23	10,200.94	51,342.17	2,037
314	P.R. No. 315 - Cat Lake	14.4	23,769.54	7,225.29	30,994.83	2,152

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
315	P.R. No. 313 - Bird Lake	37.1	$ 53,252.03	$ 8,467.79	$ 61,719.82	$1,664
316	P.T.H. No. 44 - Lowland	14.7	16,194.44	3,028.98	19,223.42	1,308
317	Lac du Bonnet - P.T.H. No. 59	31.2	58,250.51	8,457.39	66,707.90	2,138
318	Otterburne - Niverville	7.4	18,547.87	1,352.80	19,900.67	2,689
319	P.T.H. No. 59 - Patricia Beach	3.7	6,928.31	1,208.37	8,136.68	2,199
320	Selkirk - Breezy Point	11.2	20,979.21	8,388.45	29,367.66	2,622
321	P.R. No. 220 - Gross Lake	18.0	46,823.51	2,360.17	49,183.68	2,732
322	Grosse Isle - P.R. No. 415	25.7	45,342.46	3,645.50	48,987.96	1,906
323	P.T.H. No. 7 - Argyle - P.R. No. 248	19.5	39,463.92	3,201.87	42,665.79	2,188
324	Camp Morton - Rembrandt	12.2	15,798.97	542.70	16,341.67	1,339
325	P.R. No. 234 - Ashern - P.R. No. 235	78.2	130,143.06	15,299.05	145,442.11	1,860
326	Arborg - P.R. No. 233	10.1	6,763.73	3,253.91	10,017.64	992
327	P.T.H. No. 6 - Easterville	40.3	34,338.62	13,541.44	47,880.06	1,188
328	Gypsumville - Waterhen River	39.6	39,231.65	3,765.66	42,997.31	1,086
329	Riverton - Broad Valley	29.7	55,391.20	3,558.24	58,949.44	1,985
330	Morris - P.T.H. No. 100	29.4	73,255.07	5,023.90	78,278.97	2,663
331	Fortier - Portage la Prairie	17.4	27,947.53	5,650.18	33,597.71	1,931
332	Rosenfeld - Dacotah	49.3	141,128.89	15,781.07	156,909.96	3,183
334	Domain - P.T.H. No. 6	35.9	92,687.31	20,041.68	112,728.99	3,140
336	P.R. No. 201 - North of Sperling	33.8	68,702.48	7,958.04	76,660.52	2,268
338	Thornhill - Haywood - P.R. No. 331	55.9	126,654.05	10,869.76	137,523.81	2,460
340	P.T.H. No. 3 - Douglas	63.2	57,939.90	16,393.44	74,333.34	1,176
341	Lena - Horton	21.1	15,353.33	3,514.15	18,867.48	894
342	Clearwater - Cypress River	31.2	29,325.40	5,662.41	34,987.81	1,121
343	P.T.H. No. 10 - Dand	22.5	15,199.77	1,202.78	16,402.55	729
344	Dunrea - Wawanesa - Brandon	49.6	91,729.25	25,409.04	117,138.29	2,362
345	P.T.H. No. 21 - Saskatchewan Boundary	40.5	20,755.69	9,252.04	30,007.73	741

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
346	Wakopa - Nesbitt	36.5	$ 24,104.26	$ 7,257.75	$ 31,362.01	$ 859
347	P.R. No. 348 - Hartney	25.1	24,789.41	5,648.46	30,437.87	1,213
348	Boissevain - P.R. No. 349	43.0	40,303.46	9,304.12	49,607.58	1,154
349	P.T.H. No. 10 - South of Griswold	22.6	25,169.03	2,260.32	27,429.35	1,214
350	P.T.H. No. 34 - MacGregor - Woodside	43.6	105,552.10	8,425.93	113,978.03	2,614
351	Sidney - Camp Hughes	21.9	8,251.37	14,550.20	22,801.57	1,041
352	P.T.H. No. 34 - Edrans - Birnie	57.4	98,163.80	9,737.32	107,901.12	1,880
353	P.T.H. No. 34 - Brookdale - P.T.H. No. 10	43.8	51,871.49	11,096.33	62,967.82	1,438
354	P.T.H. No. 21 - Strathclair - P.R. No. 359	57.4	79,006.99	19,909.48	98,916.47	1,723
355	Minnedosa - Beulah	53.3	86,921.37	10,439.39	97,360.76	1,827
357	Birnie - Erickson	22.1	27,626.44	5,342.99	32,969.43	1,492
359	P.R. No. 270 - Vista	37.1	35,108.93	14,052.79	49,161.72	1,325
360	McCreary - P.R. No. 235	23.0	34,870.00	4,186.56	39,056.56	1,698
361	McCreary - Mt. Agassiz Ski Resort	4.2	7,006.47	705.70	7,712.17	1,836
362	Dauphin - Sifton - P.R. No. 273	24.3	51,150.87	10,965.42	62,116.29	2,556
363	P.T.H. No. 83 - Saskatchewan Boundary	5.5	21,098.82	2,337.98	23,436.80	4,261
364	Rorketon - Winnipegosis	31.9	66,830.52	19,369.13	86,199.65	2,702
365	P.T.H. No. 10 - Steeprock River	18.4	19,518.42	5,493.19	25,011.61	1,359
366	Inglis - Grandview - Birch River	138.1	202,163.49	38,366.43	240,529.92	1,742
367	Garland - P.T.H. No. 83	50.8	82,840.02	12,101.84	94,941.86	1,869
373	Sipiwesk Lake - P.R. No. 391	19.4	43,289.21	10,278.78	53,567.99	2,761
375	Paint Lake - P.R. No. 391	3.7	4,763.95	1,354.60	6,118.55	1,654
391	P.T.H. No. 10 - Thompson - Lynn Lake (Nelson House Road - Ruttan Lake Road excluded)	398.3	632,246.87	420,758.85	1,053,005.72	2,644
392	P.R. No. 391 - Snow Lake	26.6	9,646.41	43,663.65	53,310.06	2,004
393	P.R. No. 392 - Osborne Lake	11.8	7,566.03	12,004.86	19,570.89	1,659
394	Lynn Lake - Co-Op Point	62.7	12,909.76	11,398.25	24,308.01	388

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
395	Snow Lake - Chisel Lake	8.1	$ 6,333.64	$ 7,853.76	$ 14,187.40	$1,752
396	Lynn Lake - Dunphy Lakes	28.2	13,880.73	32,407.91	46,288.64	1,641
397	Lynn Lake - Eldon Lake	3.4	1,422.81	20,072.85	21,495.66	6,322
398	P.R. No. 394 - Berge Lake	1.1	292.90	1,701.47	1,994.37	1,813
399	Lynn Lake - Railway Station Road	0.3	-	173.10	173.10	577
400	P.R. No. 217 - Dufrost	7.2	5,855.33	517.15	6,372.48	885
401	Hoddinott Road	1.9	1,098.42	2,393.57	3,491.99	1,838
402	Sundown - P.T.H. No. 12	6.3	14,026.28	589.80	14,616.08	2,320
403	P.R. No. 216 - St. Malo	4.7	11,736.07	2,317.51	14,053.58	2,990
404	P.T.H. No. 12 - East of Marchand	15.0	15,359.66	6,552.31	21,911.97	1,461
405	P.R. No. 206 - Ile des Chenes - P.R.No. 200	14.6	59,119.42	2,442.80	61,562.22	4,217
406	Elma - Whitemouth	5.6	15,237.01	10,448.91	25,685.92	4,587
407	P.R. No. 202 - Henderson Highway	2.3	6,681.65	84.05	6,765.70	2,942
408	P.T.H. No. 11 - Seven Sisters Falls	8.5	15,120.20	4,249.77	19,369.97	2,279
409	P.T.H. No. 101 - P.R. No. 220	2.9	673.84	184.38	858.22	296
410	St. Andrews Church - P.T.H. No. 8	4.4	16,582.57	3,081.53	19,664.10	4,469
411	P.T.H. No. 6 - St. Ambroise	14.2	11,834.13	1,090.04	12,924.17	910
412	P.T.H. No. 26 - Warren	11.6	18,039.11	1,891.34	19,930.45	1,718
413	Petersfield - Gunton	12.3	24,654.49	2,908.19	27,562.68	2,241
414	P.R. No. 411 - Lake Francis	7.2	10,636.28	627.12	11,263.40	1,564
415	Teulon - St. Laurent	38.0	50,011.77	8,672.45	58,684.22	1,544
416	P.R. No. 415 - Inwood	9.2	10,840.74	601.71	11,442.45	1,244
417	Eriksdale - Lake Manitoba	15.3	25,423.06	9,640.47	35,063.53	2,292
418	Lake Manitoba - West of Mulvihill	18.1	20,084.29	3,142.00	23,226.29	1,283
419	Chatfield - Lake Manitoba	39.3	57,375.42	6,013.11	63,388.53	1,613
420	P.T.H. No. 75 - La Salle	7.4	18,940.22	1,176.05	20,116.27	2,718
421	P.T.H. No. 75 - South of Altona	12.8	22,797.00	3,742.93	26,539.93	2,073
422	P.T.H. No. 23 - Rosenort P.O.	7.2	27,671.82	713.35	28,385.17	3,942

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
423	P.R. No. 244 - Crystal City	23.3	$ 41,039.49	$ 11,062.34	$ 52,101.83	$2,236
424	P.T.H. No. 2 - P.R. No. 241	6.3	15,509.21	645.40	16,154.61	2,564
425	Saskatchewan Avenue	3.7	9,225.98	4,213.66	13,439.64	3,632
426	P.T.H. No. 1W. - Poplar Point	15.7	20,783.27	2,922.55	23,705.82	1,510
427	Wilkes Avenue - West	3.4	11,267.36	1,118.73	12,386.09	3,643
428	Winkler - Roland	11.4	8,890.15	2,954.61	11,844.76	1,039
429	St. Adolphe - P.T.H. No. 75	0.9	781.26	1,396.75	2,178.01	2,420
430	P.T.H. No. 1W. - St. Ambroise	24.5	39,568.82	4,898.99	44,467.81	1,815
431	St. Leon - P.T.H. No. 23	3.1	3,080.32	3,506.57	6,586.89	2,125
432	P.R. No. 201 - Rosebank	23.3	54,161.55	11,115.88	65,277.43	2,802
433	Wendigo Road	12.2	20,570.58	3,779.27	24,349.85	1,996
434	Lake Minnewasta - Morden	0.9	2,785.52	-	2,785.52	3,095
435	P.T.H. No. 12 - P.R. No. 212	25.2	29,073.79	4,745.88	33,819.67	1,342
440	P.R. No. 253 - Mariapolis	11.9	10,063.71	2,971.48	13,035.19	1,095
441	P.T.H. No. 83 - Elkhorn	8.6	11,027.05	3,137.76	14,164.81	1,647
442	Mather - P.R. No. 342	11.9	7,063.63	1,328.56	8,392.19	705
443	Ninga - Boissevain	8.3	1,454.61	6,196.76	7,651.37	922
444	William Lake - P.R. No. 341	5.2	4,869.38	576.44	5,445.82	1,047
445	Melita - Saskatchewan Boundary	18.2	6,813.74	4,353.80	11,167.54	614
446	Max Lake - P.T.H. No. 3	7.5	17,261.57	491.84	17,753.41	2,367
447	P.R. No. 254 - Napinka - P.T.H. No. 83	12.5	20,188.22	4,364.20	24,552.42	1,964
448	P.R. No. 343 - Elgin	7.2	7,120.71	2,367.41	9,488.12	1,318
449	P.R. No. 245 - Holland	10.2	12,579.30	6,045.32	18,624.62	1,826
450	United States Boundary - Whitewater	12.9	2,310.10	6,068.28	8,378.38	649
451	Treesbank - P.R. No. 344	3.1	4,126.55	419.01	4,545.56	1,466
452	Waskada - Napinka	15.4	19,804.86	2,349.01	22,153.87	1,439

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
453	Rounthwaite - P.T.H. No. 10	7.1	$ 9,922.82	$ 744.89	$ 10,667.71	$1,502
454	P.R. No. 347 - West of Souris	6.1	8,880.92	3,690.31	12,571.23	2,061
455	P.T.H. No. 1W. - P.T.H. No. 21	8.8	23,339.05	1,936.21	25,275.26	2,872
457	P.R. No. 340 - Brandon	10.4	2,099.60	2,884.63	4,984.23	479
458	P.R. No. 251 - Melita	12.3	6,498.98	2,388.59	8,887.57	723
459	Brandon - P.T.H. No. 1W.	6.1	4,007.93	2,427.81	6,435.74	1,055
460	Gladstone - P.R. No. 265	12.4	29,319.45	4,406.23	33,725.68	2,720
461	P.R. No.242 - P.T.H. No. 34	10.9	28,669.16	2,602.95	31,272.11	2,869
462	P.R. No. 265 - Glenella - P.T.H. No. 5	35.5	65,370.73	10,448.89	75,819.62	2,136
463	P.T.H. No. 21 - P.R. No. 254	2.3	2,154.37	1,065.73	3,220.10	1,400
464	P.T.H. No. 1W. - Brookdale - P.T.H. No. 4	23.4	28,897.79	2,585.48	31,483.27	1,345
465	P.R. No. 258 - Rapid City Junction	18.3	16,962.60	2,893.47	19,856.07	1,085
466	Cordova - North of Franklin	14.0	18,820.49	3,021.02	21,841.51	1,560
467	South of Miniota - Saskatchewan Boundary	20.4	32,180.74	4,691.07	36,871.81	1,807
468	Chater - North of Moore Park	19.6	24,364.37	2,871.83	27,236.20	1,390
469	P.R. No. 354 - Hamiota - P.R. No. 254	16.5	36,748.95	6,086.03	42,834.98	2,596
470	Hamiota - P.R. No. 250	43.2	39,807.02	17,674.49	57,481.51	1,331
471	Neepawa - P.R. No. 250	19.2	25,603.63	4,221.50	29,825.13	1,553
472	P.T.H. No. 4 - Vista	10.7	15,923.23	1,994.20	17,917.43	1,675
473	P.T.H. No. 10 - Newdale	12.2	25,270.89	3,070.43	28,341.32	2,323
474	Arrow River - Solsgirth	28.2	47,345.83	6,726.40	54,072.23	1,917
475	Foxwarren - P.T.H. No. 41	5.2	13,909.23	1,187.00	15,096.23	2,903
476	P.T.H. No. 4 - Angusville - P.R. No. 254	22.4	43,470.45	7,220.81	50,691.26	2,263
477	P.T.H. No. 21 - P.R. No. 254	7.2	11,554.99	523.50	12,078.49	1,678
478	Saskatchewan Boundary - Binscarth - North of Inglis	55.5	75,943.01	15,272.75	91,215.76	1,644
479	Angusville - P.T.H. No. 41	11.2	28,667.02	4,342.51	33,009.53	2,947

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
480	P.T.H. No. 5 - Makinak - Dauphin Lake	38.3	$ 47,804.17	$ 7,836.93	$ 55,641.10	$1,453
481	Crane River - P.R. No. 364	27.2	47,898.94	3,041.02	50,939.96	1,873
482	P.T.H. No. 83 - Dropmore - P.T.H. No. 5	29.0	10,122.05	5,550.22	15,672.27	540
483	Merridale - P.T.H. No. 83	11.8	14,113.02	4,722.85	18,835.87	1,596
484	P.T.H. No. 5 - North of Makaroff	20.5	28,962.48	9,004.29	37,966.77	1,852
485	P.R. No. 366 (South of Minitonas) - P.R. No. 486	10.2	17,516.45	1,951.00	19,467.45	1,909
486	P.R. No. 586 (South of Durban) - P.T.H. No. 83	17.0	22,728.06	7,402.13	30,130.19	1,772
487	Kenville - P.R. No. 588	9.4	6,898.70	1,688.87	8,587.57	914
488	P.R. No. 486 - P.T.H. No. 10 (East of Swan River)	13.4	25,660.95	5,546.01	31,206.96	2,329
489	Garland - P.T.H. No. 20	31.3	42,657.01	10,978.69	53,635.70	1,714
490	P.R. No. 481 (West of Toutes Aides) - P.R. No. 269	8.0	9,742.39	1,242.19	10,984.58	1,373
501	Ross - P.T.H. No. 1E.	16.3	35,756.37	6,222.25	41,978.62	2,575
502	Lac du Bonnet - P.R. No. 313 - P.T.H. No. 11	5.1	6,497.52	6,257.65	12,755.17	2,501
503	P.R. No. 308 - P.T.H. No. 1E.	21.5	10,044.62	2,370.34	12,414.96	577
504	Victoria Beach - Lake Winnipeg	1.4	107.62	561.23	668.85	478
505	Whitemouth River - P.R. No. 503	3.2	1,449.37	450.49	1,899.86	594
506	Prawda - P.T.H. No. 11-P.T.H. No.1E.	30.5	35,106.11	3,162.49	38,268.60	1,255
507	P.R. No. 506 - Medika	2.5	4,054.93	69.01	4,123.94	1,650
508	East Selkirk - St. Peters Church	8.2	8,589.87	2,401.85	10,991.72	1,340
509	P.T.H. No. 59 - P.R. No. 204	1.0	668.84	546.66	1,215.50	1,216
511	P.R. No. 518 - Oak Point	12.4	12,237.06	5,451.52	17,688.58	1,426
512	P.R. No. 419 - P.T.H. No. 68	9.7	10,422.54	627.15	11,049.69	1,139

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
513	P.T.H. No. 6 - Gypsumville-Anama Bay	51.4	$ 78,862.58	$ 11,091.85	$ 89,954.43	$1,750
514	P.R. No. 235 - South of Ashern	18.3	27,670.30	2,296.61	29,966.91	1,638
515	Clandeboye - P.T.H. No. 8	3.1	6,163.13	563.32	6,726.45	2,170
516	P.R. No.329 - Shorncliffe	9.2	9,980.69	1,200.34	11,181.03	1,215
517	Balmoral - P.R.No. 322	10.2	21,198.90	6,182.85	27,381.75	2,684
518	Woodlands - P.R. No. 229	23.8	26,256.11	3,629.50	29,885.61	1,256
519	Sandy Hook - P.T.H. No. 8	1.7	2,054.80	1,146.22	3,201.02	1,883
521	Rosengart - P.T.H. No. 32	3.2	9,914.06	1,668.38	11,582.44	3,620
522	Halbstadt Road	4.1	12,373.43	67.74	12,441.17	3,034
523	P.T.H. No.75 - Sewell - P.R. No. 332	9.5	17,234.54	1,066.40	18,300.94	1,926
524	Blumenort - P.R. No. 243	2.0	3,120.26	21.04	3,141.30	1,571
525	United States Boundary - P.R. No. 308	6.0	4,108.13	576.12	4,684.25	781
526	P.T.H. No. 26 - North of High Bluff	3.9	5,899.96	2,344.55	8,244.51	2,114
528	Kaleida - P.T.H. No. 3	4.4	1,278.65	1,231.04	2,509.69	570
530	P.T.H. No. 23 - Bruxelles	6.2	4,860.84	1,087.77	5,948.61	959
532	Mariapolis - P.R. No. 245	7.2	12,290.98	1,079.65	13,370.63	1,857
541	North of Mather - P.R. No. 258	9.8	2,636.23	763.83	3,400.06	347
543	P.T.H. No. 21 (South of Griswold) - P.R. No. 254	7.2	8,610.94	1,194.16	9,805.10	1,362
545	P.T.H. No. 41 (South of St. Lazare) - Saskatchewan Boundary	5.5	5,914.06	125.11	6,039.17	1,098
547	P.R. No. 482 - Saskatchewan Boundary	2.0	2,927.97	110.56	3,038.53	1,519
561	Justice - Forrest	7.2	9,904.00	608.34	10,512.34	1,460
562	Polonia - Mountain Road	4.0	6,724.42	2,901.12	9,625.54	2,406
563	P.T.H. No. 10 - P.R. No. 270 - (North of Rapid City)	4.1	6,331.14	3,047.03	9,378.17	2,287
564	Minnedosa - Bethany	8.2	12,297.92	1,936.36	14,234.28	1,736

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
565	P.T.H. No. 41 (South of McAuley) - Saskatchewan Boundary	3.1	$ 3,899.53	$ 1,333.51	$ 5,233.04	$1,688
566	Oakburn - P.R. No. 359	13.8	22,120.90	1,787.75	23,908.65	1,733
567	Lynch's Point - P.T.H. No. 50	4.7	7,047.09	1,133.64	8,180.73	1,741
568	P.T.H. No. 83 - Wattsview - P.R. No. 475	18.7	23,630.11	10,191.92	33,822.03	1,809
569	Lake Manitoba - P.T.H. No. 50	3.6	4,881.96	1,231.61	6,113.57	1,698
571	P.T.H. No. 41 (North of McAuley) - Saskatchewan Boundary	4.1	6,655.02	1,248.51	7,903.53	1,928
573	Lake Manitoba - P.T.H. No. 59 - (South of Embury)	5.1	4,785.83	178.29	4,964.12	973
575	P.R. No. 260 - Birnie	15.9	22,041.54	2,490.22	24,531.76	1,543
577	P.R. No. 566 - North of Rossburn	15.4	20,080.86	1,744.81	21,825.67	1,417
579	P.T.H. No. 83 - Millwood - P.R. No. 478	16.4	25,916.28	3,751.63	29,667.91	1,809
581	Ste. Amelie - P.T.H. No. 5	5.1	8,882.19	1,061.60	9,943.79	1,950
582	Makinak - Ochre River	10.2	16,995.39	4,257.92	21,253.31	2,084
583	Shevlin - P.T.H. No. 83	9.5	14,615.38	3,044.31	17,659.69	1,859
584	P.R. No. 366 - Merridale - P.R. No. 594	45.9	68,818.63	18,254.74	87,073.37	1,897
585	P.R. No. 276 - West of Rorketon	11.2	14,581.30	587.65	15,168.95	1,354
586	P.T.H. No. 83 - Durban	15.2	30,066.94	4,940.76	35,007.70	2,303
587	P.R. No. 268 - Bowsman	12.0	22,038.10	1,677.05	23,715.15	1,976
588	Benlot - P.R. No. 279	25.2	43,327.78	7,352.73	50,680.51	2,011
589	P.R. No. 478 - P.T.H. No. 83	5.2	4,150.26	1,620.58	5,770.84	1,110
591	P.R. No. 584 - Roblin	5.4	9,770.00	3,043.69	12,813.69	2,373
592	Deepdale - P.T.H. No. 83	6.1	7,388.15	1,991.53	9,379.68	1,538

Table No. 26

Provincial Road	Location	Miles	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per Mile
593	P.T.H. No. 83 - Deepdale	6.0	$ 7,999.25	$ 3,001.74	$ 11,000.99	$1,833
594	P.T.H. No. 83 - Boggy Creek	12.3	18,263.77	4,981.35	23,245.12	1,890
666	Access Roads	230.9	404,179.90	319,932.88	724,112.78	3,136
Nopiming Park Road	P.R. No. 314 - P.R. No. 304	30.0	25,731.76	-	25,731.76	858
Other Roads	District 10	302.1	464,183.15	124,770.03	588,953.18	1,950
		7,989.8	$11,996,645.46	$3,183,676.54	$15,180,322.00	$1,900

*The "Cost per Mile" is rounded off to the nearest dollar

Table No. 27

SUMMARY OF CONSTRUCTION AND EXPENDITURES UNDER AIDS TO CITIES, TOWNS, VILLAGES AND UNINCORPORATED VILLAGE DISTRICTS, AIDS TO UNORGANIZED TERRITORIES AND DISORGANIZED MUNICIPALITIES

APPROPRIATION 15-5A & 8A

Appropriation	Miles of Grading	Gravelling	Regravelling	Paving	Lineal Feet of Culverts	Number of Bridges	Expenditure
15-8A Program 05C	3.3	2.2	18.1	14.6	552	-	$1,377,795.82
15-5A Program 05D 100%	23.3	21.5	894.5	-	1,887	7	1,549,264.29
15-8A Program 05D 50%	66.3	32.0	821.5	-	4,064	4	848,813.74
	92.9	55.7	1,734.1	14.6	6,503	11	$3,775,873.85

Total Expenditure under 15-8A Program 05C	$2,777,898.44
15-5A Program 05D	2,398,078.03
(Prior to Credits -05D)	3,246,891.23

Table No. 27(a)

AIDS TO CITIES, TOWNS, VILLAGES AND UNINCORPORATED VILLAGE DISTRICTS

APPROPRIATION 15-8A Program 05C

Cities, Towns and Villages	Miles of Grading	Gravel-ling	Regravel-ling	Paving	Lin.Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
Altona			0.5				Calcium Chloride 0.5 miles	$ 4,029.88	$ 2,014.94
Arborg							Final Payment for 1980-81 Paving	8,749.74	4,374.87
Birtle							Seal Coat 0.7 miles	6,156.48	3,078.24
Brandon				1.8			Base Course 0.8 miles Curb & Gutter 0.3 miles	517,679.96	258,839.98
Carman	0.2			0.2			Base Course 0.2 miles Curb & Gutter 0.2 miles	91,975.20	45,987.60
Cartwright							Seal Coat 0.1 miles	5,794.23	2,897.11
Crystal City							Seal Coat 0.8 miles	10,467.90	5,233.95

Table No. 27(a)

Cities, Towns and Villages	Miles of Grading	Miles of Gravelling	Miles of Regravelling	Miles of Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Expenditure Government
Dauphin				0.6			Excavate & Base Course 0.3 miles Curb & Gutter 1,365 lin. ft.	$180,883.39	$ 90,441.70
Deloraine							Bituminous Patching 0.1 miles	2,948.16	1,474.08
Elkhorn			0.7				Calcium Chloride 0.7 miles	1,657.44	828.72
Flin Flon				0.3			Curb & Gutter 0.3 miles	44,435.25	22,217.63
Gladstone							Calcium Chloride 0.3 miles	485.71	242.85
Gretna			2.4				Calcium Chloride 2.4 miles	8,015.47	4,000.00
Hartney							Seal Coat 0.9 miles	8,059.97	4,029.99
Killarney				0.3			Base Course 0.3 miles Concrete Curb & Gutter 1,400 lin. ft.	112,270.00	56,135.00
Minitonas				0.1				5,571.81	2,785.90
Minnedosa	0.1	0.1						1,433.78	716.89

Table No. 27 (a)

Cities, Towns and Villages	Miles of Grading	Miles of Gravelling	Miles of Regravelling	Miles of Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Expenditure Government
Morden	0.6	0.2					Calcium Chloride 0.5 miles Base Course 0.2 miles Curb & Gutter 0.2 miles	$ 43,891.40	$ 21,945.70
Morris	0.1			0.4	30		Base Course 0.1 miles Curb & Gutter 1,056 lin. ft.	62,483.54	31,241.77
Niverville							Base Course 0.1 miles	11,234.54	5,617.27
Pilot Mound				0.4				32,182.80	16,091.40
Plum Coulee				0.7			Base Course 0.7 miles	81,843.63	40,921.82
Portage la Prairie				0.5				51,927.34	25,963.67
Rapid City							Calcium Chloride 0.4 miles	844.13	422.07
Roblin				0.2			Base Course 0.1 miles	30,559.28	15,279.64
Rossburn							Base & Asphalt Surface Treatment 0.1 miles	4,506.75	2,253.38
Russell							Calcium Chloride 1.0 miles	2,895.67	1,250.00

Table No. 27 (a)

Cities, Towns and Villages	Miles of Grading	Gravel-ling	Regravel-ling	Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
Snow Lake							Calcium Chloride 1.2 miles	$ 1,871.87	$ 935.93
Souris							Seal Coat 0.9 miles	12,669.03	6,334.51
St. Claude	0.1		0.9	0.1			Calcium Chloride 0.9 miles Excavate, Base & Curb 0.1 miles	57,306.38	28,653.20
Ste Rose du Lac				0.7			Excavate & Base Course 0.4 miles Curb & Gutter 3,800 lin. ft.	93,619.84	46,809.92
Steinbach				0.4			Calcium Chloride 1.3 miles Base Course 0.1 miles	47,592.85	23,796.42
Swan River				1.7			Excavate & Base Course 0.2 miles Curb & Gutter 1,016 lin. ft.	156,472.52	78,236.26
Teulon				0.8				42,980.00	21,490.00
Thompson				0.7				62,809.75	31,404.88

Table No. 27 (a)

Cities, Towns and Villages	Miles of Grading	Miles of Gravelling	Miles of Regravelling	Miles of Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Expenditure Government
Trehern			0.8	0.5			Calcium Chloride 0.8 miles Base Course 0.5 miles	$ 64,955.61	$ 32,477.81
Winkler	0.7	0.7	1.5	0.7			Calcium Chloride 1.5 miles Excavation & Base Course 0.7 miles Concrete Curb & Gutter 4,550 lin. ft.	292,531.62	146,265.81
Winnipegosis							Base & Asphalt Surface Treatment 0.8 miles	74,313.15	37,156.57

Table No. 27 (a)

Cities, Towns and Villages	Miles of Grading	Gravelling	Regravelling	Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Argyle Baldur							Seal Coat 0.2 miles	$ 2,269.82	$ 1,134.91
R.M. of Birtle Foxwarren			0.1				Base & Asphalt Surface Treatment 0.3 miles	6,844.90	3,422.45
R.M. of Blanshard Cardale			0.6				Calcium Chloride 0.6 miles	1,389.11	694.55
R.M. of Cameron Lauder			0.5				Calcium Chloride 0.5 miles	1,067.07	533.54
R.M. of Cartier Elie			0.3	0.5			Calcium Chloride 0.2 miles Base Course 0.5 miles	83,314.56	41,657.28
Springstein			0.3				Calcium Chloride 0.3 miles	3,086.20	1,543.10

Table No. 27(a)

Cities, Towns and Villages	Miles of Grading	Gravelling	Regravelling	Paving	Lin. Ft. Culverts	No. of Bridge	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Dufferin									
Graysville			0.3				Calcium Chloride 0.3 miles	$ 808.38	$ 404.19
R.M. of Edward									
Lyleton							Calcium Chloride 0.3 miles	289.70	144.85
Pierson							Calcium Chloride 0.4 miles Seal Coat 0.4 miles	2,876.02	1,438.01
R.M. of Eriksdale									
Eriksdale				0.8				54,320.00	27,160.00
R.M. of Franklin									
Arnaud							Asphalt Surface Treatment 0.3 miles	417.40	208.70
R.M. of Gimli									
Loni Beach									
South Beach							Asphalt Surface Treatment 3.0 miles	11,652.00	5,826.00
Sandy Hook									

Table No. 27(a)

Cities, Towns and Villages	Miles of Grading	Miles of Gravelling	Miles of Regravelling	Miles of Paving	Lin. Ft. Culverts	No. of Bridge	Miscellaneous Work	Expenditure Total	Expenditure Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Glenella							Calcium Chloride 1.0 miles	$ 1,315.47	$ 657.73
R.M. of Grey									
Elm Creek			0.5				Calcium Chloride 0.5 miles	2,496.81	1,248.41
Haywood			0.6				Calcium Chloride 0.6 miles	1,366.94	683.47
R.M. of Hanover									
Blumenort				0.4			Base Course 0.4 miles Curb & Gutter 3,686 lin. ft.	49,802.54	24,901.27
Grunthal							Base Course 0.1 miles	2,984.00	1,492.00
Mitchell							Base & Asphalt Surface Treatement 0.1 miles	6,952.43	3,476.22
R.M. of Harrison									
Newdale							Calcium Chloride 0.3 miles	385.70	192.85
Sandy Lake							Calcium Chloride 0.3 miles	407.13	203.57

Table No. 27 (a)

Cities, Towns and Villages	Miles of Grading	Gravelling	Regravelling	Paving	Lin. Ft. Culverts	No. of Bridge	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Lakeview Langruth							Calcium Chloride 0.6 miles	$ 566.66	$ 283.33
R.M. of Lawrence Rorketon			2.0				Calcium Chloride 2.0 miles	4,516.21	2,258.10
R.M. of Lorne Mariapolis							Excavate & Base Course 0.1 miles	3,721.51	1,860.76
R.M. of Montcalm St. Jean							Calcium Chloride 0.3 miles	539.63	269.81
R.M. of North Norfork Austin	0.3						Calcium Chloride 1.0 miles	9,137.26	4,568.63
R.M. of Ochre River Ochre River			0.5				Calcium Chloride 0.5 miles	1,103.60	551.80

Table No. 27 (a)

Cities, Towns and Villages	Miles of Grading	Gravel-ling	Regravel-ling	Paving	Lin. Ft. Culverts	No. of Bridge	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICTS									
R.M. of Rhineland Rosenfeld			0.4	0.7			Calcium Chloride 0.4 miles Seal Coat 0.7 miles	$ 41,504.50	$ 20,752.24
R.M. of Riverside Dunrea							Seal Coat 0.1 miles	1,098.10	549.05
Ninette							Seal Coat 0.4 miles	2,780.35	1,390.18
R.M. of Roland Roland			0.9				Calcium Chloride 0.9 miles	4,049.90	2,024.95
R.M. of Shoal Lake Oakburn							Base & Asphalt Surface Treatment 0.2 miles	1,446.60	723.30
R.M. of Silver Creek Angusville							Calcium Chloride 0.9 miles	1,515.96	757.98

Table No. 27 (a)

Cities, Towns and Villages	Miles of Grading	Miles of Gravelling	Miles of Regravelling	Miles of Paving	Lin. Ft. Culverts	No. of Bridge	Miscellaneous Work	Expenditure Total	Expenditure Government
UNINCORPORATED VILLAGE DISTRICT									
R.M. of South Norfolk Rathwell			0.7				Calcium Chloride 0.7 miles	$ 3,030.44	$ 1,515.22
R.M. of St. Clements East Selkirk	0.6	0.6			522			20,243.89	10,121.94
R.M. of Strathclair Elphinstone				0.2				21,604.15	10,802.08
R.M. of Strathcona Belmont	0.1	0.1						1,366.80	683.40
The Pas Unorganized Grand Rapids			2.0				Calcium Chloride 2.0 miles	5,290.00	2,645.00
R.M. of Thompson Miami	0.2	0.2	0.8	0.2			Calcium Chloride 0.8 miles Curb & Gutter 0.3 miles	69,706.72	34,853.36
Rosebank			0.2				Calcium Chloride 0.2 miles	461.47	230.74

Table No. 27 (a)

Cities, Towns and Villages	Miles of Grading	Gravelling	Regravelling	Paving	Lin. Ft. Culverts	No. of Bridge	Miscellaneous Work	Expenditure Total	Government
UNINCORPORATED VILLAGE DISTRICT									
R.M. of Victoria									
Cypress River				0.1				$ 27,895.70	$ 3,000.00
Holland							Calcium Chloride 0.5 miles	698.31	349.16
R.M. of Whitehead									
Alexander			0.6				Calcium Chloride 1.1 miles	1,432.69	716.34
R.M. of Whitewater									
Elgin							Seal Coat 0.9 miles	7,861.61	3,930.80
R.M. of Woodlands									
Lake Francis	0.3	0.3		0.3				29,900.89	14,950.45
R.M. of Woodworth									
Kenton				0.3			Gravel Base Course 0.3 miles	42,273.24	21,136.62
	3.30	2.20	18.10	14.60	552			$2,777,898.44	$1,377,795.82

Table No. 27 (b)

WORKS AND ROADS IN UNORGANIZED TERRITORY AND DISORGANIZED MUNICIPALITIES
APPROPRIATION 15-5A Program 05D

Territory	Miles of Grading	Gravel-ling	Regravel-ling	Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
DISORGANIZED									
Armstrong			8.5				Dragging & General Repairs	$ 13,984.62	$ 13,984.62
Birch River	0.5		24.0				Dragging & General Repairs	27,223.90	27,223.90
Kreuzburg	3.5	3.5	45.5		833		Dragging & General Repairs Brushing 16.0 Acres	90,724.37	90,724.37
Piney			18.0		20		Dragging & General Repairs Trim & Brushing 0.1 miles	18,484.14	18,484.14
Sprague			29.5				Dragging & General Repairs Trim & Brushing 1.0 miles	35,119.09	35,119.09

Table No. 27 (b)

Territory	Miles of Grading	Gravelling	Regravelling	Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
DISORGANIZED									
Stuartburn	6.5	7.0	65.5		50		Dragging & General Repairs Two Multiplates - Replaced Bridge	$121,561.75	$121,561.75
UNORGANIZED									
Birtle - Russell	1.3		32.0				Dragging & General Repairs	28,617.44	28,617.44
Emerson	2.5	2.5	38.0		14		Dragging & General Repairs	70,170.06	70,170.06
La Verendrye			8.0				Dragging & General Repairs Trim & Clay Cap 1.0 miles	18,185.92	18,185.92
Minnedosa	0.5		26.0				Dragging & General Repairs Brushing 16.0 Acres	30,820.52	30,820.52
Roblin			89.0			2	Dragging & General Repairs Brushing 13.0 Acres Purchase Bridge Timber	138,472.33	138,472.33

Table No. 27 (b)

Territory	Miles of Grading	Miles of Gravelling	Miles of Regravelling	Miles of Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Expenditure Government
UNORGANIZED									
Rupertsland			54.5		200		Dragging & General Repairs Brushing 11.0 Acres	$ 87,494.03	$ 87,494.03
St. George	2.5	2.5	142.5		504		Dragging & General Repairs Brushing 9.0 Acres	281,641.06	281,641.06
Ste. Rose	3.5	3.5	80.5			4	Dragging & General Repairs Brushing 360 Acres	212,140.09	212,140.09
Springfield			15.5				Dragging & General Repairs Brushing 5.0 Acres	14,738.17	14,738.17
Swan River	2.5	2.5	107.5		144		Dragging & General Repairs Brushing 9.0 Acres	119,697.08	119,697.08

Table No. 27 (b)

Territory	Miles of Grading	Gravel-ling	Regravel-ling	Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
UNORGANIZED									
The Pas			110.0		122	1	Dragging & General Repairs Brushing 42.0 Acres	$133,261.74	$133,261.74
Snowplowing School Division Bus Routes								106,927.98	106,927.98
	23.3	21.5	894.5		1,887	7		$1,549,264.29	$1,549,264.29

Table No. 27 (c)

Territory	Miles of Grading	Miles of Gravelling	Miles of Regravelling	Miles of Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Expenditure Government
LOCAL GOVERNMENT DISTRICTS									
Alexander			84.0		114		Dragging & General Repairs Brushing 12.0 Acres Base & Asphalt Surface Treatment 1.0 miles	$134,297.48	$ 67,148.75
Alonsa	2.5		74.0			1	Dragging & General Repairs Brushing 68.0 Acres	94,421.11	47,210.76
Armstrong	6.5	3.5	64.5		585		Dragging & General Repairs Brushing 76.0 Acres	99,260.77	49,630.39
Churchill							Phase Construction	4,442.99	2,221.50
Consol	0.5	0.5	32.0		90		Dragging & General Repairs Brushing 1.0 Acres Calcium Chloride 2.0 miles	69,638.15	34,819.09

Table No. 27 (c)

Territory	Miles of Grading	Gravelling	Regravelling	Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
LOCAL GOVERNMENT DISTRICTS									
Fisher	9.0	7.5	6.0		650	1	Dragging & General Repairs Brushing 18.0 Acres	$160,817.71	$ 80,408.86
Grahamdale	7.5	7.5	65.5		670		Dragging & General Repairs Brushing 30.0 Acres	159,795.74	79,897.88
Mountain	9.5		145.0		236		Dragging & General Repairs Brushing 17.0 Acres	160,815.12	80,407.55
Park	2.3		152.0		663		Dragging & General Repairs Brushing 1.0 Acres	123,802.98	61,901.49
Piney	12.5	3.0	84.0		174		Dragging & General Repairs	153,284.53	76,642.27

Table No. 27 (c)

Territory	Miles of Grading	Gravel-ling	Regravel-ling	Paving	Lin. Ft. Culverts	No. of Bridges	Miscellaneous Work	Expenditure Total	Government
LOCAL GOVERNMENT DISTRICTS									
Reynolds	5.0	2.0	20.5		266	2	Dragging & General Repairs Brushing 1.5 miles	$103,213.94	$ 51,606.98
Stuartburn	8.5	7.0	65.0		616		Dragging & General Repairs	133,203.74	66,601.87
RESIDENTS & MISCELLANEOUS	2.5	1.0	29.0				Dragging & General Repairs Brushing 655.0 Acres Base & Asphalt Surface Treatment 3.0 miles	229,312.50	114,656.26
SNOWPLOWING - VARIOUS 50/50 BASIS								71,320.18	35,660.09
	66.3	32.0	821.5		4,064	4		$1,637,626.94	$848,813.74

COMPUTER SERVICES

Computer Services provides the personnel and computer equipment to meet computer and office information systems requirements of the Department (Motor Vehicle Branch excepted). All Highways computerized systems are developed and maintained by Computer Services staff. Wherever possible, the Department takes advantage of systems that have already been developed by other Highways or related jurisdictions, resulting in substantial savings in development costs and time.

Systems Activities

Thirty-four user requests for modifications and improvements to existing computer applications were acted on and completed.

A new release of the Roadway Design system was installed. Also implemented were an upgraded version of tne U.S. Federal Highway Administration's contour plot and the metric version of perspective plots. These programs are used in bridge surveys, soil stability analysis, and visual planning.

The Department experimented, successfully, with digital contour map data for direct input to the Roadway Design System. The Department intends to follow up by determining the feasibility of formally integrating this technology in the Highway Construction program.

The Department of Agriculture has shown interest in using portions of the Roadway Design System in carrying out its programs. As a test of R.D.S. capabilities, the Agri-Water Branch used the system to solve a problem in their farm drainage program - with good results. The Branch continues to use the system and is considering expanding its use on irrigation projects.

A highly sophisticated system that approximates the specifications of the proposed Accounting, Procurement, and Inventory Management System was acquired from Tampa Electric, Tampa, Florida. Computer Services helped adjust the system so that it could run on the Manitoba Data Services computer. The new system is now undergoing volume testing.

A report on the Maintenance Management System recommended a number of improvements to the system to expand its uses and strengthen its integrity. Implementation of the recommendations is proceeding.

The soils analysis portion of the Materials Laboratory Sample Analysis system is now operational. The development of the computerized system began mid-way through the year. When fully operational, the system will assist the soils laboratory in analyzing samples belonging to one of four categories: soils, aggregates, bituminous, and concretes. The system will eliminate manual duplication and transcription of information, will replace manual by computerized reporting, will reduce the time required on calculations and verifications, and will improve the efficiency of filing test results.

A computerized Accounts Receivable System is under development. The present manual system, although modified, has been in existence for over thirty years. The principal objective of the new system is to ensure the timely collection of the $4 million annual accounts receivables with a reduction in the clerical work required to achieve that goal. Some of the forms designed for the new system are already in use.

Keypunch machines of 1960's vintage were replaced with modern Video Display Terminals allowing Department personnel on-line access to the Manitoba Data Services computers to process data, submit inquiries against data bases, and produce reports.

A study of Central Records micrographic requirements and records management practices was completed. The report recommended changes in records management procedures and practices, document retention cycles, document coding structure, and micrographic equipment. Implementation of the recommendations is proceeding.

The Traffic Section was assisted in the development of a survey to measure the recognition of traffic signs and to provide statistical reports on the survey information for analysis.

The word processing requirements of the Contract Section, Planning and Design Division, and Transportation Division were identified to senior management.

A procedures manual was prepared for the Accounting Section to be used by staff in training and for reference purposes.

The Operations Section was assisted in tabulating and summarizing results from a questionnaire given to field personnel by the Construction Training Officer. The purpose of the questionnaire was to establish the level of expertise among Construction personnel.

The Department now pays interest on money held back from Contractors for security. Because of the large number of outstanding contracts (350 at any time), a system was developed on a micro-computer to maintain records of payments to Contractors and amounts held back.

A feasibility study was initiated to determine the optimum information handling system for the Transportation Division.

Production and Operations

Eleven thousand separate jobs were processed using the remote-job-entry computer batch terminal, an increase of 43% from last year. The increase is primarily due to a wider use of the Roadway Design System and the development of the Accounting, Procurement, and Inventory Management System.

The total number of records keypunched and key-verified dropped to 1.4 million, a decrease of 13% from last year.

Approximately 1,500 hours of connect time originated from the remote terminals having a direct access to Manitoba Data Services.

TRAFFIC INSPECTION

This section operates eleven Highway Traffic Inspection Stations two of which operate 24 hours, seven days a week and the others on an irregular basis.

The province is divided into 15 inspection areas. Portable scales are used when inspectors are patrolling highways and provincial roads to ensure that motor vehicles are operating within the allowable weights and dimensions as specified in the Highway Traffic Act. It is also the responsibility of the Highway Traffic Inspectors to ensure that the operation of motor carriers is in compliance with the Highway Traffic Act and regulations imposed by the Motor Transport Board.

In addition to enforcing regulations with regard to commercial vehicles, inspectors file temporary commercial vehicle authority reports, and issue motive fuel permits, single trip permits and trip insurance. They are empowered to lay charges under the Motor Vehicle Transport Act (Canada), the Highway Traffic Act and Motive Fuel Tax Act.

The purchase of three portable electronic platform scales has greatly improved weighing in high volume traffic with the least inconvenience to the trucking industry.

Highway Traffic Inspection Statistics from March 1, 1981 to February 28, 1982 are as follows:

	1980	1981
Highway Inspection Reports	3,894	4,834
Inspection Notices	1,599	1,791
Single Trip Certificates and Fuel Permits	38,685	35,379
Transit Licences	2,710	2,314
Single Trip Fees	$748,343.95	$622,809.97
Fuel Tax	$273,513.95	$224,220.71
Transit Licence Fees	$ 20,858.00	$ 26,942.00

PROSECUTIONS INSTITUED AND DISPOSED OF:

	1980	1981
Winnipeg	2,249	2,346
Convictions	2,106	2,252
Stay of proceedings and withdrawn	70	48
Acquitted	7	0
Reprimanded	50	46
Dismissed	6	0
Dauphin	361	404
Convictions	347	389
Stay of proceedings and withdrawn	10	10
Acquitted	3	1
Reprimanded	1	4
Brandon	149	69
Convictions	144	66
Stay of proceedings and withdrawn	3	1
Reprimanded	2	2

FINES AND COSTS

Winnipeg	$167,775.35	$146,414.20
Dauphin	29,112.25	30,273.50
Brandon	7,661.10	3,293.25
Total	$204,548.70	$179,980.95

MATERIALS & RESEARCH

The Materials and Research Section maintained its usual level of activity. Major functions include laboratory testing of all types of highway-related materials, preparing mix designs for asphaltic and portland cement concrete pavements, drilling for soil and grade surveys, preparing structural designs for new and upgraded highways, locating new gravel sources, and updating the inventory of known sources. Providing advice and assistance to the district staff on inspection and quality control on construction projects, and adherence to specifications was a major activity.

Highways Testing Laboratories in Winnipeg and Brandon performed a total of thirty-seven thousand five hundred tests on fifteen thousand samples.

Special projects included:

a) Sand penetration tests on Asphalt Primer
b) Participation in AASHTO Materials Reference Sample Program
c) Participation in a national Asphalt Mix Exchange
d) Administration of a national Bituminous Mix Exchange
e) Evaluation of an Automotive Paint Problem for the Department of Government Services.
f) Lime Stabilization
g) Biennial Traffic Paint evaluation

Geotechnical

Throughout the year, exploration for new aggregate sources was given priority over inventory. The inventory function was maintained with respect to keeping aggregate records as current as possible.

The inventory crew visited 216 sites throughout the Province particularly in Study Region #1 located in the southwestern corner of the Province covering an area of 5,184 square miles. A total of 482 samples were taken for analysis and an additional 500,000 m^3 of gravel was uncovered in existing pits which were thought to be depleted.

The nine Block Files - 1, 2, 3, 13, 14, 15, 25, 26, and 27 making up Study Region #1 have been revised and updated. The revised edition of these Block Files have been given an new bright orange cover and different binding for easy reference.

The exploration crew, with two field personnel and a hired backhoe, investigated 73 prospective granular sites in the southern and central part of the Province, and in District #8. The Geonics EM 31 conductivity meter was frequently used to assess potential gravel sites where the terrain was rough and inaccessable to the backhoe. This instrument also provided information when used in conjunction with a backhoe survey to determine the outer limits of an aggregate formation.

Of the 1,726 hectares tested, 680 hectares were confirmed as gravel deposits. The result is the discovery of 12,530,000 m^3 of gravel in new sources.

Preliminary studies for gravel resources along the Split Lake - Gillam Road were started. Making use of airphotos, potential granular source areas were mapped. Field work will be carried out during the fall of 1982.

Surfacing

During the construction season the surfacing group provided quality control assistance on a regular basis to paving and gravel base course projects. Twenty-two bituminous mix designs were carried out, 825 field mix samples were tested. Continued emphasis was placed on checking pavement densities. As part of this operation, 1,533 asphalt cores were processed.

Continuing evaluations of recently introduced asphalt products included:

a) Emulsified Asphalt Primer is proving very successful in the field. This product has replaced much of the MC-0 asphalt formerly used.
b) AC-20 and AC-27.5 grade asphalts continue to perform acceptabley under ongoing monitoring.

An experimental project was begun using 1/2" top-size aggregate for a bituminous mix. Construction problems and performance were observed and will continue to be monitored.

A field office was established in Brandon to improve the quality control assistance given to the districts in Western Manitoba.

Soils & Research

General quality control and engineering assistance was provided for 43 of the 58 grading contracts and 1 cement modified subgrade project. Seven nuclear density machines provided density control on 11 grading projects.

Fifty of the total of 78 corrugated steel pipe orders were inspected at the four Manitoba fabricating plants. Installation advice was provided for the six reinforced concrete pipe orders.

The drilling statistics for subgrade evaluation by the B-30 drill truck are:

No. of kilometres tested	661
No. of test holes	3,457
No. of samples	6,811
Total depth drilled (m)	5,500

No. of Soil Surveys	
Preliminary (grade and survey)	45
Final (for surfacing design)	23
Special	11
	79

Soils investigations and designs were conducted for the following projects:

Continuation of the relocation study on P.R. No. 254, North of P.T.H. No. 1.

Completion of geotechnical design for the relocation of P.T.H. No. 41, south of St. Lazare.

Design of remedial measures to rectify the interception of the Glenora Aquifer on P.R. No. 342.

Commencement of a geotechnical study on the Assiniboine Valley for the addition of a new embankment for P.T.H. No. 1 at Brandon.

A geotechnical investigation and design was conducted to float an embankment over a 7 m deep peat deposit which suffered a failure following the construction of a previous embankment. Piezometers and settlement plates were installed to monitor construction activities and to evaluate performance.

A preliminary soils investigation and the installation of 3 piezometers on P.R. No. 238 near the St. Andrew's Church commenced the development of a Riverbank Stabilization Test Section. This project is being undertaken in co-operation with The Manitoba Agreement on Recreation & Conservation on Red River Authority Incorporated.

Research projects included the following:

1. A light-weight 600 mm diameter corrugated polyethylene culvert was placed in a crossing on P.R. No. 447 in late October 1981. Structural and hydraulic performance will be monitored to determine acceptability.

2. A non-woven polyster fabric was placed over a cement-treated base prior to the placement of a bituminous surface on P.T.H. No. 10. The object was to determine the fabric's effectiveness in reducing the occurrence of reflective cracking. Another potential method to retard reflective cracks was attempted on P.T.H. No. 6. This was the placing of a coarse seal coat aggregate (25 mm) on the existing cement-treated base and asphalt pavement prior to the placement of bituminous pavement overlay.

3. A comprehensive correlation program was undertaken to determine the effect of 11 inch and 10 inch wide truck tires on Benkelman beam rebound readings. The study revealed that the 11 inch wide tires had the effect of spreading the wheel load in a transverse direction and therefore produced rebound values which were 11 percent less than produced with 10 inch wide tires. The standardization of tire sizes and use of maximum legal weight was therefore recommended for the Benkelman beam program.

General

As a member of the Canadian Standards Association Technical Committee on corrugated steel pipe, the Materials and Research Division contributed to the development of a national Corrugated Steel Pipe specification.

The Materials & Research section also contributed to the review of the Highways Department specifications.

New specifications for seal coat and traffic gravel were implemented.

Revisions were made to the bituminous and base course specifications.

Traffic Cotrol specifications were reviewed.

Revision of concrete specifications were begun but not completed.

The Laboratory and the Surfacing staff continued participation in the national paving mix and asphalt testing exchange and reported on the results to the annual meeting of the Canadian Technical Asphalt Association.

Work continued on the development of the national specification for asphalt cement. Our member on the Committee on Road Materials of the Canadian General Standards Board has the responsibility for this specification preparation which has required considerable research and correspondence.

Membership on several committees of the Roads and Transportation Association of Canada was maintained and the Division was an active participant of the Pavement Recycling Committee. The Division was active in the organization and program of a special group meeting to consider the problem of measurement of pavement ride characteristics.

Illumination

A. New Installations

To reduce energy costs on new lighting projects, High Pressure Sodium luminaires were installed. New poles were installed at a minimum 30' set back from the edge of the roadway to reduce the accident potential.

Intersection	Luminaires No.	Size (Watts)	Mounting
P.R. No. 204 & P.R. No. 212	3	250	55' wood poles 12' arms
P.R. No. 204 & P.R. No. 509	3	150	2 existing, 1 new wood poles
P.T.H. No. 101 & P.R. No. 409	4	250	60' wood poles underground wiring
P.T.H. No. 59 & P.R. No. 212	2	150	wood poles
P.T.H. No. 1 & P.T.H. No. 13	11	400	55' steel standards

B. Illumination Modifications

To reduce energy costs the following existing mercury power illumination has been converted to High Pressure Sodium. In the process the number of poles have been reduced. Poles that had to be installed or relocated were installed with a minimum of 30' offset from the roadway edge to reduce accident potential.

1. At the junction of P.T.H. NO. 59 with Bird's Hill Park Access Road; of the Nine 100' high mast poles with 4 - 1000 watt luminaires on the median of P.T.H. No. 59, every 2nd pole was removed. The remaining 1000 watt luminaires on 4 high mast poles were converted to 1000 watt High Pressure Sodium and the number reduced from 4 to 2 luminaires per pole.

2. At the junction of P.T.H. No. 1 and P.R. No. 240, 4 - 100 watt luminaires on 2 high mast poles were converted to 4 - 400 watt luminaires on the same 2 poles.

3. On P.T.H. No. 1W at Virden existing luminaires were converted to High Pressure Sodium.

4. At the junction of P.T.H. No. 1 and P.T.H. No. 10, existing 8 - 1000 watt have been converted to 4 - 1000 watt luminaires mounted on two existing high mast standards

Pavement Marking

A. Regular Painting Program

Cost of Pavement Marking Program	$1,281,277.00	
Gallons of paint applied	78,028	gallons
Average cost per applied gallon	$ 8.86	
Miles of centre line painted	6,623	miles
Miles of edge line painted	3,104	miles
Total miles of pavement markings applied	9,727	miles
Average cost of centre line	$ 89.82	per mile
Average cost of edge line	$123.58	per mile
Composite cost of applied pavement markings	$131.72	per mile
Average gallons of paint per mile of pavement markings	8.02	gallons

The above summary includes repainting of existing pavement markings as well as painting of seal coated pavements. It does not include material used and accomplishment for work done for towns and villages, the Federal Government and other Provincial Government Departments.

Painting units have been calibrated to ensure that paint is applied at the optimum rate both for maximum night reflectivity and durability. Through this effort there was a significant improvement in pavement marking quality. Calibration will be performed annually at start up, and continue through the season for quality control.

B. Permanent Markings

Permanent pavement markings have been installed on curves on PTH 9 and as lane lines on P.T.H. No. 1 between Winnipeg and Headingley where painted lines wear out prematurely due to traffic volumes.

Greater use of permanent markings will be made in future years in high volume problem areas as well as in urban applications.

Railway Crossing Protection

(1) New Installations

As part of a cost sharing agreement between the C.P.R., C.N.R., the Railway Transport Committee and the Department of Highways, automatic railway grade cross protection was installed at the following locations:

HIGHWAY	RAILWAY	MILEAGE/SUBDIVISION		LOCATION
P.R. No. 321	C.P.R.	11.7	Arborg	Stony Mountain
P.T.H. No. 16A	C.P.R.	77.82	Minnedosa	Minnedosa
P.T.H. No. 83	C.P.R.	26.85	Arcola	Pipestone
P.R. No. 252	C.P.R.	33.0	Arcola	Reston
P.R. No. 302	C.P.R.	96.63	Keewatin	Beausejour
Modifications:				
P.T.H. No. 16	C.N.R.	63.26	Rivers	Portage West
P.T.H. No. 5	C.N.R.	107.25	Gladstone	Ochre River

(2) Maintenance

The Highways Department shares with the applicable railway the cost of maintaining signal protection at various railroad crossings. Department costs for the year were $622,898.31.

Signing

Upgrading traffic control devices complete with breakaway sign posts was carried out at P.T.H. No. 101; P.T.H. No. 425; P.T.H. No. 1; P.T.H. No. 13; P.T.H. south junction No. 10 and P.T.H. No. 16; P.T.H. No. 101; P.R. No. 221; P.T.H. No. 10; P.T.H. No. 1A (Brandon); P.T.H. No. 100; and P.T.H. No. 3.

Provincial boundary markers were refurbished at the following locations: P.T.H. No. 1 east - P.T.H. No. 75 - P.T.H. No. 10 - P.T.H. No. 59 - P.T.H. No. 16 - P.T.H. No. 12 - P.T.H. No. 30 - P.T.H. No. 5 - P.T.H. No. 18 - P.T.H. No. 2. These 9m high ribbon signs are a favourite subject for the tourist camera.

A smaller version of a boundary marker was designed for provincial routes entering the province.

An inspection program is continuing on overhead sign structures, with 8 structues being fully inspected. As a result of these inspections 4 structures were removed and repaired.

An effort is being made to clear exit areas of obstructions. The exit direction signs are being relocated to a bridge face, if available, otherwise suitable cantilever structures are used.

Traffic Accidents

The computerized traffic accident record system has now been completed going back to 1974. Original copies of accident records are kept for 5 years plus the current year.

A. 1981 Calendar Year Accident Summary on Provincial Highways

1981 Total Accidents	5,293	
1980 Total Accidents	5,811	
Property Damage Accidents	3,947	(74.6%)
Injury Accidents	1,258	(23.7%)
Fatal Accidents	88	(1.7%)
Multiple Vehicle Accidents	2,188	(41.3%)
Single Vehicle Accidents	3,105	(58.7%)
Daytime Accidents	2,819	(53.3%)
Night-time Accidents	2,474	(46.7%)
Multiple Vehicle (daytime) Accidents	1,616	(30.6%)
Single Vehicle (daytime) Accidents	1,203	(22.7%)
Multiple Vehicle (night-time) Accidents	572	(10.8%)
Single Vehicle (night-time) Accidents	1,902	(35.9%)
Rural Accidents	3,723	(70.3%)
Urban Accidents	1,570	(29.7%)
Decrease in 1981 Accidents over 1980	518	(8.9%)

B. 1981 Accident Summary by Highway District

		Number of Accidents		
District	Property Damage	Injury	Fatal	Total
1	575	191	9	775
2	420	127	4	551
3	283	96	7	386
4	195	37	2	234
5	519	174	10	703
6	406	122	12	540
7	247	64	8	319
8	311	90	8	409
9	142	34	2	178
10	270	90	7	367
11	233	79	9	321
12	346	154	10	510
TOTALS	3,947	1,258	88	5,293

Speed Studies

Eighty-seven radar studies were conducted for the purpose of recommending speed limits in urban and semi-urban areas as well as compiling a data base to monitor vehicle speeds at signalized intersections and other critical locations.

Traffic Signals

1. Fully actuated traffic control signals were installed at the intersection P.T.H. No. 3 and P.T.H. No. 13 in the Town of Carman. These signals use electronic control equipment for high efficiency.

2. Semi-actuated traffic control signals were installed at the intersection of P.T.H. No. 9A (Main Street) and Manchester Avenue in the Town of Selkirk.

   This installation makes use of combined traffic signal and illumination standards. Safer set back distances for signal standards and breakaway pole bases are also used.

3. Electro-mechanical traffic signal control equipment at the intersection of PTH #9A and Strathnaver Avenue in the Town of Selkirk was replaced with semi-actuated solid state equipment.

   This equipment as well as being relatively maintenance free will provide a more efficient form of pedestrian and vehicular traffic control.

4. A combined traffic signal and illumination standard was installed at the intersection of P.T.H. No. 9A and Manitoba Avenue in the Town of Selkirk.

   This single standard replaced two existing standards and improved the ornamental lighting on Manitoba Avenue installed by the Town of Selkirk.

5. A micro-computer based 365 day master time switch was installed at P.T.H. No. 9A and Minnehaha Avenue to provide better control of the existing inter-connected traffic signal system.

   This device can be programmed to adjust traffic signal timings on the co-ordinated system for any predictable change in normal traffic flows.

6. The installation of two combination traffic signal and luminaire standards for north and south bound traffic at the intersection of P.T.H. No. 3 and P.T.H. No. 100 allowed for the removal of 6 Manitoba Hydro owned street light standards and two traffic signal standards.

   Besides removing traffic hazards from the intersection and improving illumination, the traffic arm supports and additional traffic signal head provide better visibility to traffic on P.T.H. No. 100.

7. Traffic signals at the intersections of P.T.H. No. 1A (Victoria Avenue) at 6th Street and at 13th Street were re-built to accommodate street re-construction.

   Combination standards, breakaway bases and safer pole set back distances were used to improve both the safety, and the aesthetics of the intersection.

Pedestrian Corridors

Pedestrian corridors were installed at the following locations:

(a) P.T.H. No. 10 (Main Street) and Second Avenue in the Town of Flin Flon.
(b) P.T.H. No. 12 and First Street south in the Town of Steinbach.
(c) P.R. No. 285 (Third Street) and Ross Avenue in the Town of The Pas.
(d) P.R. No. 311 (Main Street) and Kaiser Avenue in the Town of Niverville.

Flashing Signals

Flashing signals were installed to reinforce stop signs or keep right signs at the following locations.

(a) P.T.H. No. 1 at both ends of the divided highway at Kemnay and Alexander.
(b) P.T.H. No. 1A at the Kemnay junction of P.T.H. No. 1.
(c) P.T.H. No. 10 at Swan River.
(d) P.T.H. No. 75 at both ends of the divided highway north of Emerson.

Miscellaneous

1. Three trailer mounted diesel powered sequential flasher units were purchased and added to the fleet of 26 Department-owned units. Two units were demolished in traffic accidents. Diesel powered units now have proven to be more efficient than the previously purchased gas powered units.

2. The traffic signal section maintained runway lighting at various air strips throughout the province.

3. A continual program for safe traffic safety operations in construction areas has been carried on by attending pre-contract meetings with district staff and contractors. Also 118 construction projects were checked one or more times.

Although 65 maintenance and construction area accidents in 1981 does not represent a decrease from the previous year, the total remains below the 1974 to 1980 average.

4. Bridge end protection continues with on site instructions to enable district staff to install guardrail according to set standards. Fifteen bridges were treated and 6,350 linear ft. of guard rail installed.

AIRPORTS AND MARINE

The airport development program is ongoing and supports such needs as forest protection, medical retrievals, resource development and the tourist industry.

The Department operated, maintained and administered a total of 28 airports and aerodromes which accomodated up to and included Class II air services at the following locations:

Nine Licensed Airports

Island Lake
Norway House
Cross Lake
Gods Lake Narrows
Oxford House
Little Grand Rapids
Red Sucker Lake
Berens River
Lac du Bonnet (under lease)

Eleven Licensable Airports

Bloodvein
Ilford
Shamattawa
South Indian Lake
Brochet
York Landing
Pukatawagan
Lac Brochet
Pikwitonei
Thicket Portage
St. Theresa Point

Eight Emergency Aerodromes

Cormorant
Anama Bay
Poplar River
Bissett (Wallace River)
Matheson Island
Easterville
Moose Lake
Wasagamack

The aerodrome at St. Theresa Point was reconstructed to Code "D" airport standards.

A Terminal Building was constructed at Berens River to replace the one lost in a March 1981 fire. Equipment and instruments were also installed in the new building.

Bulk fuel storage tanks and security fencing were installed at Berens River.

Passenger shelters were constructed at Pikwitonei and Thicket Portage.

A screener was airlifted to Lac Brochet in order to produce maintenance gravel for the airport.

At Lac Brochet, an equipment shelter was constructed and security fencing erected.

A firehall was constructed at God's Lake Narrows. This building is used to store the firetruck, emergency gear and supplies.

VHF Portapac Radios were obtained for Pikwitonei, Thicket Portage, Ilford and Lac Brochet.

The Department operated and maintained the following airport facilities and support equipment:

Facilities	Number
terminal buildings	20
equipment shops	17
warehouses	1
radio equipment	96
non-directional beacons	12
rotating beacons	2
runways with lights	12
runways with light activators	11
motor graders	24
loaders	19
snow blowers	1
tractors and mowers	6
fire and other trucks	42
foam chemical apparatus	4
dry chemical apparatus	13

Weather observing and reporting at Norway House under contract with Atmospheric Environment Services continued to be used for national network distribution.

Conditions at the airports influenced issuing of: 254 Advisories, 115 Notams, 94 Notam Extensions

At eighteen communities the Department made available to the local government at cost the use of airport equipment for the maintenance of local rods and other municipal services.

Airport Activity Summary

		Increase(Decrease)
Total Aircraft Movements	47,680	13.8%
Total Passenger Movements	108,737	8.3%
Total Freight Tonnage	8,907	(2.7%)

Thirty-eight fire, crash and rescue workshops were conducted at airports. One hundred and sixty-five staff members, including Medical Services branch staff, Royal Canadian Mounted Police, local constables, community leaders, chiefs, council members and airport emergency committee members, either participated in, or observed, fire, crash and rescue drills.

A school and community workshop under the airport safety and security program was made available to groups by regional airport managers and administrative staff after being successfully piloted last year. The workshop, designed to prevent vandalism of airport property and facilities, has since been adopted by the federal Department of Transport and the governments of Ontario and Saskatchewan.

Eleven altimeter workshops were held on site at airports. A new altimeter installation was commissioned at Bloodvein airport. New altimeter inspection and calibration forms were drafted and put into service. Most airport altimeters have been completely recalibrated for ease of operation.

Monthly airport safety meetings were instituted this year and the results have been rewarding. Monthly bulletins and safety information are dispatched to airport staff. There is a routine reporting system established.

The Section developed an airport safety and security manual which was reviewed by and received approval from the Attorney General's department prior to implementation.

A regional airport manager's handbook was drafted and will be implemented in August, 1982.

The handbook on the operation of radio activated runway lights was rewritten and redistributed.

A furnace servicing handbook was also composed and distributed.

First aid courses were delivered at six airports. All 28 staff members involved qualified and received St. John Ambulance certificates.

Flight services staff received radio operator instruction at 5 sites.

The weather observation and reporting program was maintained and monitored for quality and training purposes. The handbook was improved. Five airports were added to the reporting system.

Identifying uniforms were ordered and distributed.

An energy conservation booklet for airports was written for distribution in early fall of 1982.

The airport fees regulations manual was entirely rewritten and converted to the metric system.

An airport administration workshop was conducted in Thompson involving airport managers from 6 northern airports. Results have proven to be successful and more workshops are scheduled for coming years.

Liaison was established with equipment operator trainers at the federal Department of Transport resulting in an exchange of program materials for development of an airport equipment operator training course.

Resource Roads Appropriation 15-4D-2

Sixty-seven miles of resource roads and two high level bridges were maintained for road access into the following communities:

Cross Lake
Norway House
Split Lake
York Landing
Matheson Island

When ferry operations ceased due to freezing conditions, an ice bridge was maintained across Sea River to allow for Norway House vehicular winter traffic.

Norway House - Community Roads Appropriation 15-4-D-2

Under this program the Department provided for year round maintenance of 30 miles of isolated community roads and one high level bridge giving access to the main market road and to school bus transportation in a consolidated school system.

Seasonally, two floating foot bridges and two ice bridges were maintained to allow school children to cross the river to the bus stop.

Marine Services

The Department owns six ferries which are operated to provide access to remote communities.

Cable Ferries

The C.F. Ingemar Carlson, is operated by the Department and provides access from the terminal of P.R. No. 234 to Matheson Island.

The C.F. Thomas McIvor, was leased to the Cross Lake Indian Band with an operational grant of $18,000.00. It provides river crossing access from the Community on the west side of the lake to the commercial section on the east side.

The C.F. James Apetagon, is operated by the Department and provides access across the east branch of the Nelson River for traffic on the Jenpeg-Norway House road.

Motor Vessels

The M.V. Charlie Sinclair, is operated by the Department across the Nelson River at Pipestone Lake providing access to the community of Cross Lake.

The M.V. Joe Keeper, is operated by the Department across Split Lake and provides access to the community of York Landing.

The M.V. Edgar Wood, was leased to Channel Area Community Services Inc. with an operational grant of $30,000.00. It provides access from P.R. No. 234 to Princess Harbour and Bloodvein.

Summary of Department operated Ferry Traffic:

Ferry	Passengers	Vehicles
M.V. Charlie Sinclair	15,020	8,250
M.V. Joe Keeper	736	233
C.F. James Apetagon	7,315	5,881
C.F. Ingemar Carlson	-	3,401

Table No. 28

AIR AND RADIO SERVICES
AIRPORT OPERATIONS AND MAINTENANCE
MARINE SERVICES

Work Order No.		Location	Description of Work	Expenditure
15-4D-2				
		Other Expenditures		$800,858.87
MWT	001	Jenpeg - Norway House	Resource Roads Maintenance	24,133.56
	002	Matheson Island Ferry Access Road	Maintenance	1,653.80
	007	Matheson Island	Ramp Improvements	2,757.33
15-8C-1 Minor Improvements to Airports				
AP	028	Island Lake Airport	Equipment Shelter Improvements	3,994.98
	029	Thicket Portage Airport	Construction of Passenger Shelter	10,636.88
	030	Gods Lake Narrows Airport	Construction of Fire Hall	17,685.65
	031	Lac Brochet Airport	Installation of Security Fence	5,366.92
	032	Berens River Airport	Equipment Shelter Improvements	3,348.23
	033	Berens River Airport	Concrete Base For Fuel Tanks	1,868.78

Table No. 28

Work Order No.		Location	Description of Work	Expenditure
15-8C-1 Minor Improvements to Airports				
AP	034	Berens River Airport	Construction of Terminal Building	$ 89,747.84
	035	Berens River Airport	Purchase Terminal Equipment	5,494.01
	036	Lac Brochet Airport	Erection of Equipment Storage Building	63,401.83
	037	Various Airports	Purchase of Communication Equipment	7,154.18
	038	Grace Lake Airport	Preliminary Engineering	2,125.55
15-8D-1 Minor Improvements to Airports (Recoverable from Northern Affairs)				
CTN	137	Thicket Portage Airport	Electrical Service Installation	12,696.13
	139	Berens River Airstrip	Stockpiling Traffic Gravel, Drainage Improvements	67,935.54
	140	Island Lake Airstrip	Stockpiling Traffic Gravel	151,653.69
	141	St. Theresa Point Airstrip	Grading & Stockpiling Traffic Gravel	273,797.83
	143	Bloodvein Airstrip	Stockpiling Traffic Gravel	51,545.09
	145	Thicket Portage Airport	Purchase of Shop Equipment	4,902.00
	146	Pikwitonei Airport	Construction of Passenger Shelter	10,043.53

Table No. 28

Work Order No.	Location	Description of Work	Expenditure
15-8D-1 Minor Improvements to Airports (Recoverable from Northern Affairs)			
CTN 147	Pikwitonei Airport	Electrical Service Installation	$ 10,406.50
148	Pikwitonei Airport	Purchase of Shop Equipment	5,110.38
149	Lac Brochet Airstrip	Gravelling	44,821.30
150	Ilford Airport	Stockpiling Traffic Gravel	58,979.01
151	Pukatawagan Airport	Stockpiling Traffic Gravel	185,547.74
152	Red Sucker Lake Airstrip	Stockpiling Traffic Gravel	135,323.27
153	Island Lake Airport	Construct Water and Sewage System	92,072.91
304	Thicket Portage Airport	Upgrading & Gravelling	19,360.86
15-8D-2 Resource Roads (Recoverable from Northern Affairs)			
CTN 202	Whiskey Jack - Cross Lake	Grading & Gravelling	356,769.97
204	Pipestone Lake - East Nelson River, Whiskey Jack - Cross Lake Road	Design for Ferry Construction, Landing & Docking Facilities	23,681.24

Table No. 28

Work Order No.	Location	Description of Work	Expenditure
15-8D-4 Community Roads (Recoverable from Northern Affairs)			
CTN 400	Norway House	Bridge Approaches, Barrier Guard Rail, Grading & Gravelling	$114,468.92
402	Nelson River	Bridge Construction	978,650.23
15-8D-7 Community Roads (Recoverable from Northern Affairs)			
CTN 700	Norway House Internal Roads	Grading & Gravelling	86,685.31
15-8D-8 Thompson - Split Lake Road (Recoverable from Northern Affairs)			
CTN 800	Mile 78.5 - Split Lake Indian Reserve, Mile 71 - Mile 81	Grading & Gravelling	179,852.99
801	Orr Creek Diversion	Structural Plate Culvert Installation	210,674.65
			*$4,115,207.50

*Appropriation Summary

15-4D-2	829,403.56	15-8D-2	380,451.21	15-8D-8	390,527.64
15-8C-1	210,824.85	15-8D-4	1,093,119.15		
15-8D-1	1,124,195.78	15-8D-7	86,685.31		

Total $4,115,207.50

Major Projects

Planning and Design staff were involved in the following ongoing studies and programs:

1. Brandon Area Provincial Highway Study

This study by a consultant is assessing the needs of the provincial highway system in the Brandon area over the next twenty years. The data gathering stage has been completed and a number of alternative solutions generated. Meetings were held in Brandon in January, firstly with the local government councils and then at an open meeting attended by several hundred members of the public. Comments on the alternatives were received from these meetings prior to proceeding with the evaluation and selection stages of the study. Preparation of preliminary designs and right-of-way plans for the highway improvements being recommended will be part of this study.

2. Four-laning Highway No. 75 South of Winnipeg

Following several public meetings held with landowners to discuss the Department's preliminary plans for four-laning P.T.H. No. 75 from Winnipeg south to Ste. Agathe, further design modifications had to be considered. The location of the proposed additional lanes, the spacing of access points, and the amount of right-of-way required were some of the features to be re-examined in certain areas.

3. Upgrading of Saskatchewan Avenue in Portage la Prairie

The Department engaged the services of a consulting firm to undertake a roadway design for the proposed reconstruction of P.T.H. No. 1A in the downtown area of Portage la Prairie. The consultant's study also includes the design of a storm sewer system for the City as well as special landscaping and roadside appurtenances for creating a more attractive street scene on Saskatchewan Avenue.

Highway Programming

The Planning Section continues to maintain an up-to-date inventory on both Provincial Trunk Highways and Provincial Roads. The inventory includes current information on completed construction and major maintenance work, traffic accident statistics, traffic counts, highway geometrics, and pavement condition ratings. A start was made on converting this extensive inventory record to the metric system.

The highway system was analysed for deficiencies and sections that required attention were identified. With the help of the District offices, Bridge and Materials Divisions, the required improvements on the deficient sections were determined, scheduled and cost estimated. A rigorous procedure to set priorities was then undertaken to select projects for inclusion in the proposed annual construction program.

The Planning Section issued 65 Geometric Design Criteria for those engineering projects that were approved on the annual construction program. The Criteria Sheets were forwarded to the Design Section, to the District offices involved for review, and then to Head Office for approval.

Traffic Studies

Traffic counting on Provincial Trunk Highways and Provincial Roads continued and the Annual Average Daily Traffic Map was again prepared.

A truck weight survey was carried out on a seasonal basis at thirteen locations. Traffic classification counts were undertaken at twenty-six locations seasonally. Thirty-six special one-day counts were taken for signal, pedestrian corridor, or intersection design studies.

Land Use and Access Control

During the year the Planning Section reviewed the following land use documents and development plan proposals:

- Rural Municipality of Archie Basic Planning Statement
- Bissett Basic Planning Statement
- amendments to Brandon Development Plan
- amendments to Local Government District of Consol Basic Planning Statement
- Brandon and Area Planning District
- Cypress Planning District Development Plan
- Town of Dauphin Development Plan
- Village of Dunnottar Basic Planning Statement
- Eastern Interlake Planning District
- City of Flin Flon Boundary Expansion Proposal
- amendments to Local Government District of Grand Rapids Basic Planning Statement
- Grass River Park Master Plan
- Development of Minnedosa Central Business District
- Rural Municipality of Mossey River & Village of Winnipegosis Basic Planning Statement
- amendment to Morden-Stanley-Thompson-Winkler Basic Planning Statement
- Neepawa and Area Development Plan

- Village of Niverville Basic Planning Statement
- Nor-Mac Development Plan
- Rural Municipality of Oakland Basic Planning Statement
- City of Portage la Prairie Development Plan
- Town of Roblin Development Plan
- South Riding Mountain Development Plan
- Town of Steinbach Development Plan
- Town of Swan River Development Plan
- amendments to Town of The Pas Development Plan
- Thompson District Development Plan
- Wanless Development Plan
- Village of Wawanesa Development Plan
- West St. Paul Community Plan
- Western Interlake Development Plan
- Rural Municipality of Whitehead Zoning By-Law
- Greater Winnipeg Development Plan
- Winnipeg International Airport Compatible Land Use Study

Many of the studies and proposals required research as well as contact with local government officials and provincial planners.

During the regular reviews of subdivision applications 731 proposals were studied and comments submitted to the Municipal Planning Branch or to the City of Winnipeg Department of Environmental Planning. The Planning Section also represented the Department at 3 subdivision appeals that were heard by The Municipal Board.

More than 900 Crown Land proposals consisting of:

(i) sales, leases and general permits of Crown Land,

(ii) exchanges of Crown Lands to various Local Government Districts, and

(iii) reservations of Crown Land for various municipal, provincial and federal authorities,

were reviewed and comments submitted to the Department of Natural Resources.

A total of fifty-six Traffic Board hearings were attended at various locations and 463 applications for permission to erect structures and advertising signs or to construct access approaches to Limited Access Highways were reviewed. In addition, 449 similar permit applications involving other departmental roads were processed. Eight Public Utilities Board hearings called to deal with appeals of applicants who were previously denied access or building permits by The Traffic Board were attended.

Roadway Design

The main responsibilities of the Design Section continue to be centered around the more complex roadway design projects such as functional and final plans for multi-lane highways, traffic interchanges, channelized intersections, and urban arterial connections. These types of designs are needed for:

(i) current construction projects,

(ii) future highway needs to define and protect future right-of-way requirements, and

(iii) the review of subdivision applications

The more routine and detailed designs are undertaken in the District Offices. The Design Section provides engineering guidance and advice to the District staff. The Design Section encourages the District staff to discuss projects early either during the preliminary design phase or even before the design process begins. This procedure reduces the number of revisions and facilitates a faster review of the final design plans prior to Head Office approval.

The Design Section developes geometric design standards and criteria, undertaking field inspection trips for evaluating existing design features, co-ordinating roadway designs with other Sections and agencies affected by the Department's proposed highway facilities, and submitting project descriptions to the Manitoba Environmental Assessment and Review Agency. In the last few years there has been a large increase in the use of photographic base plans in the District offices for highway design. The Design Section prepares the information required to produce the semi-controlled photographic plans.

Work continues on the Highway Design Manual with meetings with nine of the twelve Districts to review in detail the draft manual. When the reviews are completed the manual will receive final editing.

Drafting Services

The Drafting Section again updated District, municipal, town and village maps to incorporate the latest information regarding new locations, numbering and surface type. Ninety-one large-scale municipal maps have now been re-drawn using the scribe method with metric versions produced for general use. The new provincial constituency boundaries have now come into effect. As a result, 125 unorganized territory maps and 35 large maps are being revised according to the new boundaries.

Fourteen large wall maps were also updated.

Scribe sheets for the Official Highway Map were again revised to include a cover design and information for Brandon's centennial year. Six hundred thousand copies of the map were produced for distribution by Travel Manitoba. The map shows changes in location, numbering and surface type on Provincial Trunk Highways and Provincial Roads.

A contract for 961 kilometres of aerial photographs was drawn up, awarded, and completed for highway inventory, location and design purposes.

The Drafting Section produced the annual maps showing grader drag beats, forman's beats, and seal coat locations for Maintenance Management. The Annual Snowplow Distribution Sheet was provided for the Mechanical Division. Numerous other maps, charts, forms, graphs, mosaics and drawings were prepared for Materials & Research as well as the Planning Section. This work included drawings in metric units for the Metrication Engineer and the conversion to metric of existing forms. Cover designs for reports and presentations is also part of the services provided by the Drafting Section.

Forms, charts and graphs were also prepared for Accounting, Personnel, Contracts, Computer Services, The Motor Transport Board and the Motor Vehicle Branch. The Drafting Section also helped the Traffic Division and some of the District Offices with drafting when their draftsmen were not available for work.

The Section prepared a new Traffic Count Map, Traffic Count Location Map, and 909 access sketch plans. Drawings for numerous railway and gas pipeline crossings were drafted for locations that affected provincial highways. Charts and maps were prepared for the review of proposed subdivisions throughout the Province, and maps were prepared for proposed rail line abandonment. Material for presenting the proposed construction program was again prepared and revisions to location plans were done as required throughout the year.

Various workshops and seminars were again attended by staff members to help upgrade methods and equipment used in providing drafting services for the Department.

General

More than 110 Manitoba Telephone System buried cable projects adjacent to provincial, municipal and Local Government District roads, and 7 major Manitoba Hydro power line proposals affecting provincial highways were referred to the Planning Section for review. In all cases affecting this Department the utilities were advised where to locate their lines so as to avoid disruption from possible future highway construction operations.

Planning staff continued to represent the Department on technical advisory committees reviewing two major Manitoba Hydro transmission line proposals: the Dorsey - U.S.A. 500 kV transmission line (Mandan project) and The Pas - Cranberry Portage 230 kV transmission line.

A staff member again participated with representatives from the federal Railway Transport Committee and the railway companies in investigation of railway crossings for which signal protection or other revisions had been requested. Approval was received to install signals at four unprotected highway - railway crossings on the provincial highway system.

Contact was maintained with a number of technical organizations in the highway field, including the Roads and Transportation Association of Canada (RTAC), the Western Association of Canadian Highway Officials, the U.S. Transportation Research Board, and the Institute of Transportation Engineers. Planning and Design engineers also worked on several technical committies during the year, including the Geometric Design Committee of RTAC, the Highway Statistics Project Committee of RTAC, and the Crossings-Signals Technical Working Committee of the federal Canadian Transportation Commission.

Table No. 23

SUMMARY OF MILEAGE ON PROVINCIAL TRUNK HIGHWAYS
BY SURFACE TYPE AND NUMBER OF LANES

Number of Lanes	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Mileage
2	144.1	2,444.1	155.2	920.5	13.1	3,677.0
4 Undivided	2.2	21.3	1.1	-	-	24.6
4 Divided	101.7	233.5	-	0.2	-	335.4
6 Undivided	-	0.6	-	-	-	0.6
6 Divided	-	0.7	-	-	-	0.7
8 Divided	-	-	-	-	-	0.0
	248.0	2,700.2	156.3	920.7	13.1	*4,038.3

*These mileages compiled as of January 1, 1982

Table No. 24

SUMMARIZED MILEAGE
BY
SURFACE TYPE

	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Total
P.T.H.	248.0	2,700.2	156.3	920.7	13.1	4,038.3
P.R.	15.7	745.5	298.2	1,344.9	5,285.6	7,689.9
Totals	263.7	3,445.7	454.5	2,265.6	5,298.7	*11,728.2

*These mileages compiled as of January 1, 1982

Table No. 25

SUMMARIZED MILEAGE BY ENGINEERING DISTRICTS

District No.	Provincial Trunk Highways Mileage	Provincial Roads Mileage	Total Mileage
1	386.4	614.6	1,001.0
2	335.4	707.9	1,043.3
3	321.1	797.6	1,118.7
4	444.4	615.4	1,059.8
5	475.7	629.6	1,105.3
6	304.5	720.8	1,025.3
7	450.9	772.8	1,223.7
8	341.1	787.9	1,129.0
9	239.0	411.2	650.2
10	254.2	667.8	922.0
11	351.3	816.9	1,168.2
12	134.3	147.4	281.7
Totals	4,038.3	7,689.9	*11,728.2

*These mileages compiled as of January 1, 1982

An expenditure on bridges of $7,897,411 represents a 37% increase over each of the previous two years. Provincial Trunk Highways which have been identified with the Highway Strengthening accounted for a large portion of the increase. The program values of such work increased from $505,890 last year to $1,656,749 in the current year. The value of bridge work done on Northern Roads increased from $53,879 to $278,157. For structures identified as being within the designation "Manitoba Northlands", an additional $1,213,006 was spent; the new structure over the Nelson River at Norway House accounted for $978,650 of the latter.

Maintenance expenditures, exclusive of ferry operations, stop-gap and contingencies, show an increase of approximately 14% over the previous year at $574,465.

Design

The Department designed and constructed a single 82 m span steel truss bridge over the East Channel of the Nelson River. The bridge was founded on rock and employed rock bolt tie-downs.

The design of twin overpass structures on relocated P.T.H. No. 12 at Ste. Anne was completed during the current year and construction was started. These structures consist of precast prestressed concrete box girder spans supported by reinforced concrete hammerhead-type piers.

A bridge with long precast concrete girder spans was designed and constructed over the Whitemouth River in the Town of Elma on P.T.H. No. 11. Contract drawings for a second bridge of similar design were completed and construction commenced for a crossing of the Swan River on P.R. No. 487.

Two bridges in the Town of Carman on P.R. No. 245 were replaced with modern precast prestressed concrete structures.

A large number of bridges employing the new metric prestressed concrete channels were constructed on Provincial Roads.

The Bridge Division provided assistance to the District Staff in solving drainage problems. Sites were studied and recommendations made with respect to the installation of corrugated metal pipes.

Construction

In addition to the supervision of work carried over from the previous year, 69 new contracts including 40 separate structures were awarded.

The staff of the Construction Section carried out numerous bridge inspections upon receipt of requests for bridge assistance from District Engineers.

An item of special interest is the 3 500 kN pile load test carried out in the vicinity of the proposed twin grade separation structures at the intersection of P.T.H. No. 1 and P.T.H. No. 12 near Ste. Anne.

Maintenance

The Bridge maintenance crews worked on 119 separate projects which included construction and major improvements of 7 bridges, general repairs to 27 structures, deck patching of 9 structures, 27 accident repairs, painting of 49 structures, construction of 3 implement storage sheds for district maintenance yards, and other projects varying from repositioning rip-rap blocks to setting up of podiums, for official opening ceremonies.

Ferries

The Treesbank Ferry on Provincial Road No. 340 continued to be operated by the Rural Municipality of South Cypress under a grant system.

Subsurface Soil Explorations

Appropriations	P.T.H. 15-5	P.R. 15-5	Main Market & School Roads	Total
Sites	12	38	1	51
Borings	58	113	4	175
Linear Meters	922	1,528	67	2,517

Others

	No. of Borings	Linear Metres
P.R. No. 342, Pembina Valley Road Cut Ground Water Check	2	25
Jct. P.T.H. 75 and 100, Slope Failure	2	33
Totals	4	58

Field Sampling and Testing

Standard Penetration	935
Vane Shear Tests	381
Shelby Tubes	331
Split Spoon Samples	1,107
Dynamic Cone Penetration Tests	2

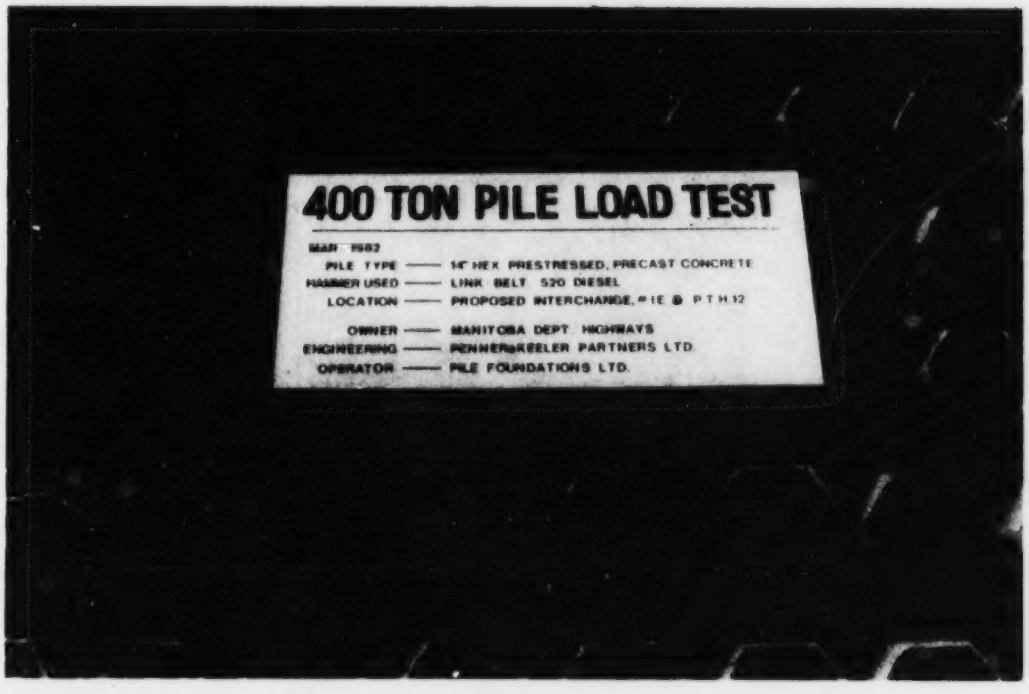
Statement of Bridge Materials Stockpiles at Beausejour and Dauphin

Inventory - April 1st, 1981	$ 582,213.41
Purchases	1,032,027.35
Charges for Inspection & Handling	26,202.32
	1,640,443.08
Issues	456,593.74
Inventory as of March 31st, 1982	1,183,849.34

Summary of Issues

Type of Material Issued	Quantity	Approximate Unit Price	Total Value
Treated Timber	425.162 m^3	405.70	172,489.32
Treated Timber Piles	4,139 m	17.82	73,766.30
Steel "H" Piles	3,346 m	44.17	147,792.17
Bridge Iron	12,364.944 kg	1.48	18,314.60
Steel Pipe Guard Rail	658 pcs.	40.74	26,809.39
Steel Beam Guard Rail	167 pcs.	42.97	7,176.60
Guard Rail Terminals	42 pcs.	11.43	480.06
Paints,Primers,Thinners	2,018.21 L	4.16	8,386.09
Asmo-Creo	463.72 L	2.95	1,369.21
	Total		456,593.74

At the year end treated timber and treated timber piling accounted for 57% of the total inventory. Issues of treated timber and treated timber piling accounted for 54% of the total issued from stockpile. Average unit price of treated timber increased by 13%; timber piling by 5%; steel "H" piling by 33% and bridge iron by 24%. The total value of materials issued was reduced by 44% as compared to the previous year. The value of the year end inventory increased by 103%. Although some of the increase can be attributed to higher purchase prices most of the increase resulted from the necessity to stockpile new sizes of treated timber as well as more and longer piles required for the new standard treated timber and precast concrete channel type bridges.


400 TON PILE LOAD TEST
MAR 1982
PILE TYPE —— 14" HEX PRESTRESSED, PRECAST CONCRETE
HAMMER USED —— LINK BELT 520 DIESEL
LOCATION —— PROPOSED INTERCHANGE, #1E @ P.T.H.12
OWNER —— MANITOBA DEPT. HIGHWAYS
ENGINEERING —— PENNER&REELER PARTNERS LTD.
OPERATOR —— PILE FOUNDATIONS LTD.

Pile load testing for twin grade separation structure on Relocated P.T.H. No. 12 at P.T.H. No. 1.

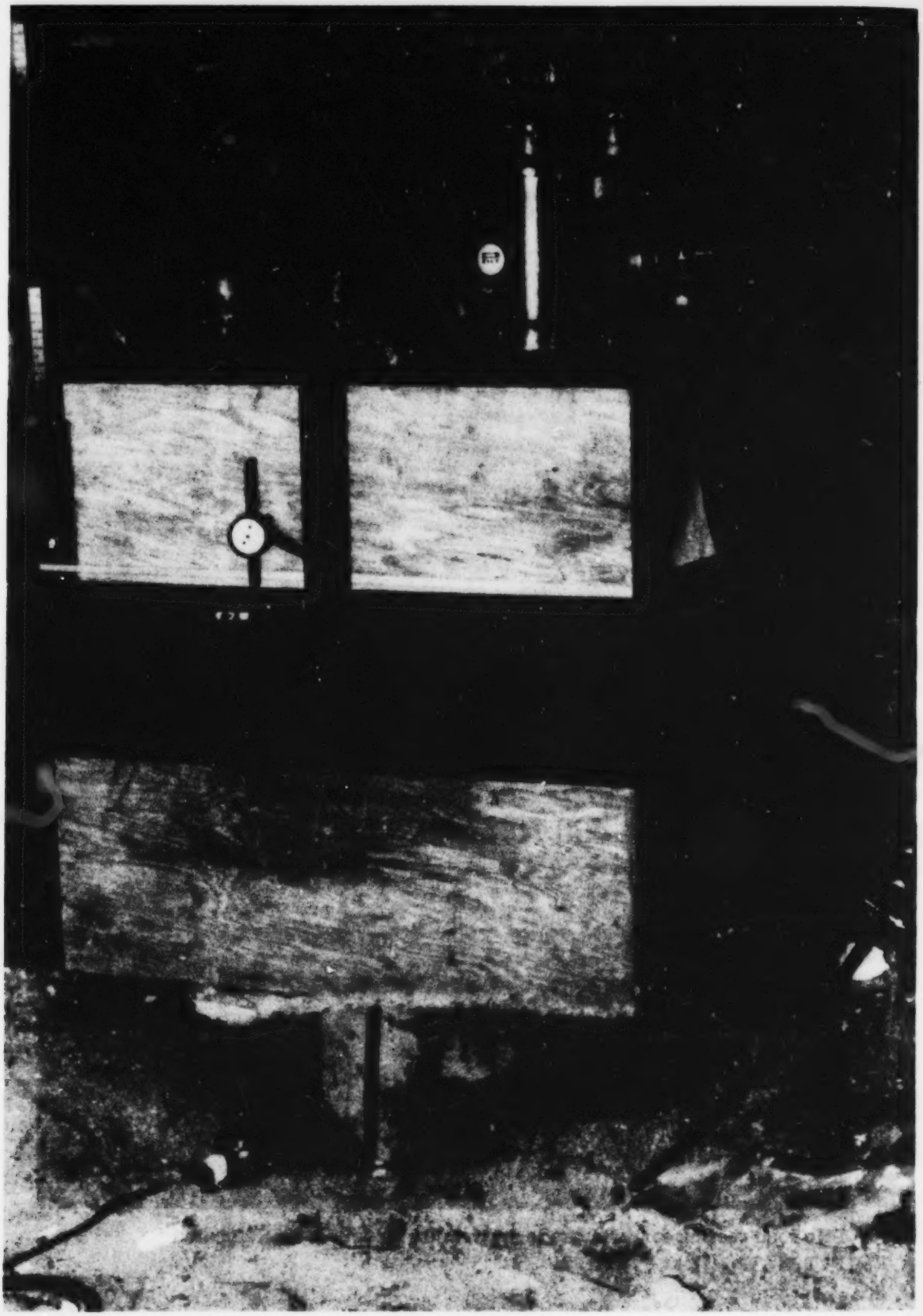


Table No. 19

BRIDGES AND TRANSPORTATION STRUCTURES
CONSTRUCTED AND REPAIRED
INCLUDING OPERATION OF FERRIES
APPROPRIATIONS 15-4A, 15-6A & 15-8D

Highway	Work Order No.	Location	Description of Work	Expenditure
15-4A Provincial Trunk Highways & Provincial Roads				
1	0828	R.M. of N. Norfolk Squirrel Creek	Installation of Electric Heating Cables	$ 3,576.00
5 & 10	0814	R.M. of Dauphin	Vermillion River Bridge - Expansion Dam Repair	7,760.47
6	0824	E.D. of The Pas - Strong Lake Creek	Treated Timber Bridge Repairs	23,236.93
7	0822	R.M. of Rosser - Grassmere Drain Bridge	Reinforced Concrete Bridge Repair	857.79
13	0813	R.M. of Portage la Prairie	Elm Creek Channel Bridge, Treated Timber Bridge Deck	5,207.08
23	0817	R.M. of Morris	Shannon Creek, Treated Timber Bridge Repair Levelling the Structure	5,634.39
	0819	R.M. of Montcalm	Marsh Creek Bridge, Treated Timber Bridge Repairs, Replace Treated Timber Wing Walls	6,418.70

Table No. 19

Highway	Work Order No.	Location	Description of Work	Expenditure
59	0823	R.M. of Springfield - Red River Floodway	Reinforced Concrete Bridge Repairs	$ 11,123.23
75	0802	R.M. of Montcalm, Town of Emerson	Bridge Maintenance - Raising and Shifting Bridge Superstructure	57,427.21
100 & 101	0800	Perimeter Bridges	Bridge Maintenance	13,819.54
204	0812	R.M. of St. Clements	Red River Bridge at Selkirk, Repair Left Control	63.25
276	0826	R.M. of Ste. Rose - Hansen Creek	Treated Timber Bridge Repair - Levelling	2,732.92
277	0810	E.D. of Swan River	Bridge Maintenance and Timber Stringer Repair	1,172.21
	0816	E.D. of Swan River	Repairs to Two Treated Timber Bridges	2,010.26
305	0825	R.M. of Portage la Prairie	Assiniboine River Bridge, Concrete Bridge Repairs	41,278.56
313	0815	R.M. of Lac du Bonnet	Lee River Bridge, Barricading of Abandoned Bridge	4,576.07
325	0820	L.G.D. of Fisher, Fisher Branch	Treated Timber Bridge Repairs, Reinforce Broken Stringer	620.06

Table No. 19

Highway	Work Order No.	Location	Description of Work	Expenditure
328	0818	E.D. of Ste. Rose	Waterhen River Bridge, Bridge Repairs	$ 3,454.15
336	0811	R.M. of Rhineland	Hespeler Drain - Bridge Maintenance & Treated Timber Bridge Repairs	1,414.34
345	0801	R.M. of Cameron	Levelling Treated Timber Bridge	1,153.16
366	0821	R.M. of Grandview - Valley River Bridge	Treated Timber Bridge & Steel Truss Deck Repair	1,073.68
Miscellaneous				
	0803	Various	Galvanizing & Painting Bridge Guardrailing	63,196.16
	0804	Various	Painting of Bridges	199,965.00
	0805	Various	Bridge Maintenance - Patching Decks	108,212.70
	0806	R.M. of Brokenhead	Maintenance of Bridge Yard & Bldg. at Beausejour	6,296.51
	0807	City of Winnipeg	Maintenance of Bridge Yard, Midland St., Winnipeg	3,571.11
	0808	R.M. of Dauphin	Maintenance of Bridge Yard, Dauphin	9,737.06
	0809	R.M. of West St. Paul	Maintenance of Explosive Magazine Yard	2,360.70
	0827	Various	Tools & Equipment Purchased for Bridge Division Maintenance Crews	13,488.73
			Maintenance	601,437.97
	* 0895	South Cypress	Operation/Maintenance of Treesbank Ferry over Assiniboine River	21,000.00
			Ferries	21,000.00

Table No. 19

Highway	Work Order No.	Location	Description of Work	Expenditure
Miscellaneous				
	** 0651	Wilkes Avenue, Winnipeg	Construction of Implement Storage Shed	$ 5,972.50
			Contingencies	5,972.50
15-6A Provincial Trunk Highway				
5	7049	Valley River, R.M. of Grandview	Bridge Construction	204,404.69
11	7053	R.M. of Whitemouth	Whitemouth River Bridge in Elma-Bridge Construction	505,135.96
12	7051	R.M. of Ste. Anne	Seine River Culvert - Reinforced Concrete Box Culvert Construction	837.37
	7054	R.M. of Hanover	Upper Manning Canal - Bridge Construction	55.88
20	7050	R.M. of Dauphin	Reinforced Concrete Box Culvert Construction	8,184.65
83	7158	R.M. of Arthur	Settlement of Flooding Claim	33,816.58
Miscellaneous				
	7015	Various	General Engineering	63,344.76
	7016	Various	Subsurface Soil Explorations	51,315.60
			Provincial Trunk Highway	867,095.49

Table No. 19

Highway	Work Order No.	Location	Description of Work	Expenditure
15-6A Provincial Roads				
201	5534	R.M. of Rhineland	Buffalo Drain - Bridge Construction	$ 67,105.27
210	5487	R.M. of Tache	Manning Canal - Bridge Construction	167,536.30
211	5406	L.G.D. of Pinawa	Winnipeg River Bridge - Bridge Deck Resurfacing and Modification	228,509.83
228	5536	L.G.D. of Fisher	Broad Valley Drain - Bridge Construction	23,895.91
240	5177	R.M. of Thompson	S. Shannon Creek Bridge - Bridge Construction	17,121.58
242	5507	R.M. of Lorne	Cypress River - Bridge Construction	91,809.00
245	5179	R.M. of Dufferin	Boyne River - Bridge Construction	254,577.64
	5508	R.M. of Dufferin	Boyne River Diversion - Bridge Construction	281,534.28
250	5175	R.M. of Blanshard	Extension to Concrete Head Wall & Installation of Flexbeam Guardrail	2,507.97
277	5530	E.D. of Swan River	Rice Creek - Bridge Construction	205,483.14
328	5535	E.D. of The Pas	Powderhorn Creek - Bridge Construction	44,321.18

Table No. 19

Highway	Work Order No.	Location	Description of Work	Expenditure
329 & 226	5501	R.M. of Bifrost	Over Icelandic River - Bridge Construction	$ 617,550.20
338	5459	R.M. of Dufferin	Boyne River Diversion - Bridge Construction	105,085.14
353 & 606	5518	R.M. of N. Cypress, R.M. of North Norfolk	Bridge Construction	144,192.76
366	5524	R.M. of Grandview	Harper Creek - Bridge Construction	65,498.41
421	5527	R.M. of Montcalm	Aux Marais River - Bridge Widening	23,447.26
428	5537	R.M. of Roland	Shannon Tributary - Bridge Construction	25,467.95
447	5176	R.M. of Arthur	Souris River Bridge - Bridge Extension	27,371.00
462	5521	L.G.D. of Alonsa	Glencairn Drain	38,048.34
480	5516	R.M. of Ochre River	Over Kergwenan Drain - Bridge Construction	53,188.59
486	5324	R.M. of Swan River	Over Roaring River - Bridge Construction	195,944.90
487	5523	R.M. of Swan River	Bridge Construction	365,430.51

Table No. 19

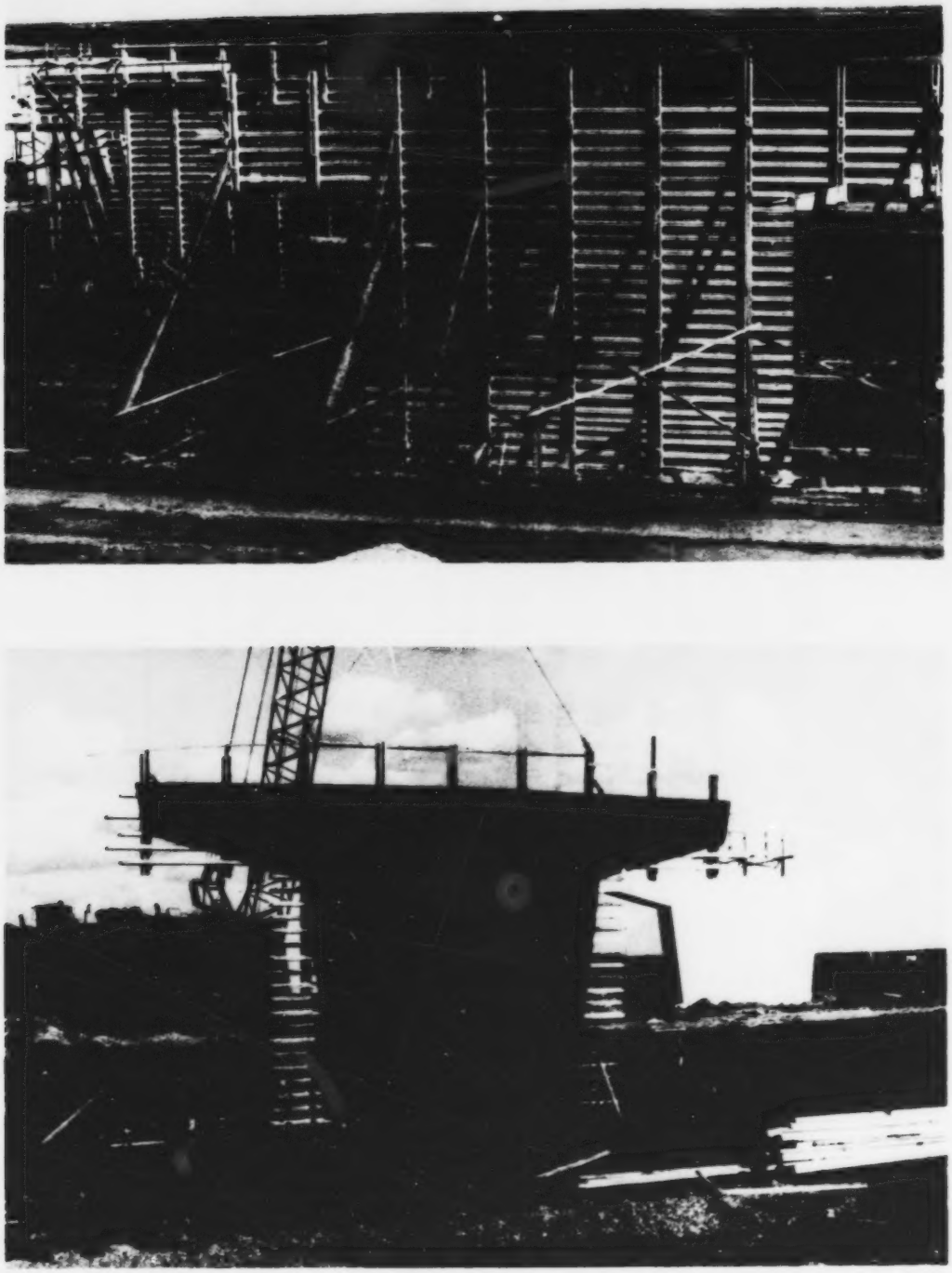
Highway	Work Order No.	Location	Description of Work	Expenditure
Miscellaneous				
	5113	Various	General Engineering	$ 45,287.64
	5114	Various	Substructure Soil Exploration	85,873.32
	5538	Various	Concrete Girders	104,176.30
			Provincial Roads	3,280,964.42
15-6A Highway Strengthening				
1	151	R.M. of Portage la Prairie	Assiniboine River Bridge - Deck Resurfacing	166,080.81
	152	L.G.D. of Reynolds	Birch River Bridge - Modification & Deck Resurfacing	139,116.63
5	155	R.M. of Ste. Rose	Scott Drain - Bridge Construction	445,400.60
10	153	E.D. of Swan River	Kemulch Creek - S.P.C.M.P. Extension	27,807.57
12	149	R.M. of Ste. Anne	Bridge Construction	668,487.42
12 & 1	160	R.M. of Ste. Anne	Overpass Site - Pile Load Test	48,933.51
16	159	R.M. of Portage la Prairie R.M. of Westbourne	Willowbend Creek - Whitemud River - Deck Resurfacing	160,923.24
			Highway Strengthening	1,656,749.78

Table No. 19

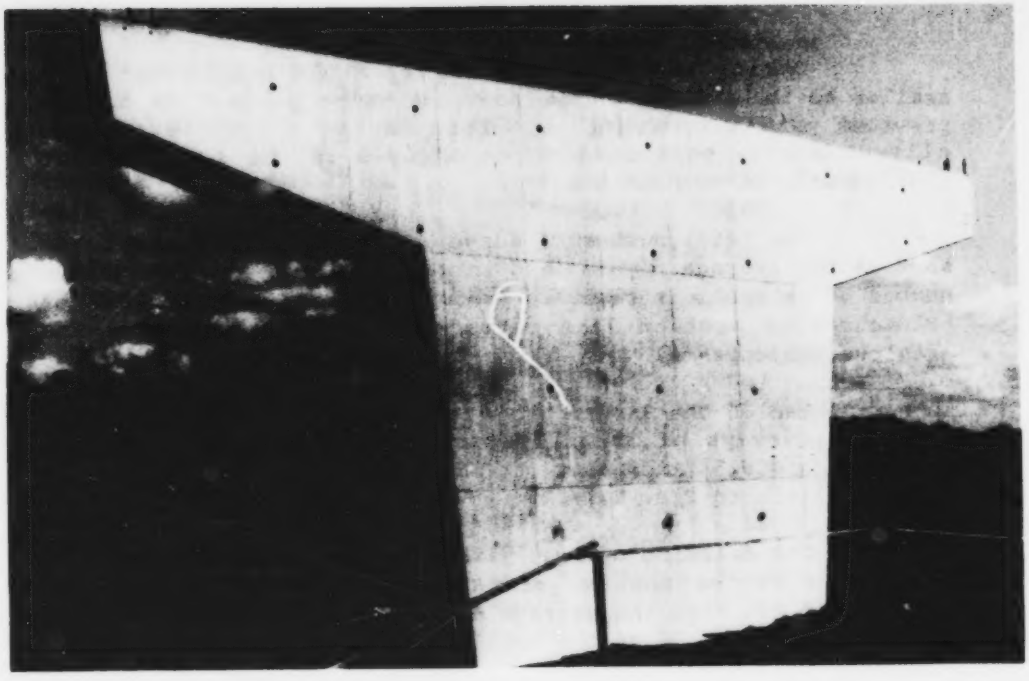
Highway	Work Order No.	Location	Description of Work		Expenditure
15-6A Northern Roads					
304	343	E.D. of Rupertsland	Sandy River Bridge - Bridge Widening & Redecking		$ 82,240.36
	364	E.D. of Rupertsland	O'Hanley River, Black River Bridges - Bridge Modifications		195,917.01
			Northern Roads		278,157.37
15-8D Manitoba Northlands					
	204	E.D. of Thompson	Pipestone Lake, E. Nelson River, Whiskey Jack, Cross Lake, Ferry Design & Construction	(15-8D-2)	23,681.24
	402	Norway House Settlement E.D. of Rupertsland	Nelson River - Bridge Construction	(15-8D-4)	978,650.23
	801	E.D. of Thompson	Thompson - Split Lake Road - Orr Creek Diversion - Structural Plate Culvert Installation	(15-8D-4)	210,674.65
			Manitoba Northlands		1,213,006.12
					$7,924,383.65

Table No. 19

Highway	Work Order No.	Location	Description of Work	Expenditure
Appropriation Summary				
15-4A		Maintenance	$ 601,437.97	
*		Ferries	21,000.00	
**		Contingencies	5,972.50	$ 628,410.47
15-6A		P.T.H.	867,095.49	
		P.R.	3,280,964.42	4,148,059.91
		Highway Strengthening	1,656,749.78	1,656,749.78
		Northern Roads	278,157.37	278,157.37
15-8D		Manitoba Northlands	1,213,006.12	1,213,006.12
			GRAND TOTAL	$7,924,383.65



Construction of twin overpass structures on Relocated P.T.H. No. 12 at Ste. Anne.



LAND SURVEYS

During the year Land Survey field activities were similar to the average of the previous three years. As in the previous year very little snowfall during the winter months allowed survey personnel to be engaged in the field almost continuously throughout the year.

The total number of surveys completed was about the same as the average of the last three years. An increase in the number of retracement requests contributed to a 21% increase of kilometres of section line retraced over the average of the previous three years.

Two of the larger projects completed this past year were the surveys of 39 kilometres of road from Atikameg to Cormorant and 7.5 kilometres of P.T.H. No. 75 from the City of Winnipeg limit to P.R. No. 429.

The drafting office, with the aid of one field person during the winter months, prepared 144 plans which was an increase of 20% over the average of the last three years. The majority of plans, 76 of the total, were Provincial Roads.

The carryover of unregistered plans at Land Acquisition Branch as of March 31, 1982 was 65 an increase of 17% over the average of the last three years.

The number of Orders of the Minister closing Public Roads decreased slightly in the past year. By-laws of Municipal Corporations closing public roads were reviewed and forwarded to Central Records for filing.

Field surveys are now being executed and plans registered shortly after agreements to purchase land required for highway rights of way have been obtained by Land Acquisition Branch. This procedure is in the public interest and will be pursued as actively as possible.

The Chief Land Surveyor served on the Canadian Council on Surveys and Mapping and a Division Manitoba Land Surveyor served as Provincial Councillor to the Canadian Institute of Surveying.

Statistical Summary and Comparision of Operations

	1981/82	1980/81	1979/80	1978/79
Kilometres of Section Line Retracement	1542	1382	1505	946
Standard Posts placed at Section Corners	982	985	1108	774
Centre line kilometres of all Roads Surveyed	582	801	547	-
Provincial Trunk Highway Surveys	13	18	12	30
Provincial Road Surveys	57	53	58	76
Other Road Surveys	15	20	17	17
Miscellaneous Surveys	14	9	14	24
Retracement Surveys	43	31	40	16
Plans Drafted	144	123	116	120
Plans Registered in Land Titles Office	128	123	133	193
Order of the Minister Closing Public Roads	31	39	28	36
Request for Survey	130	144	143	120
Expropriation Requests	18	13	-	-
Carryover of Unregistered Plans at Land Acquisition Branch	65	47	53	67
Carryover of Survey Requests	30	38	20	-

MECHANICAL

Approximately 2300 equipment Units are maintained by the Mechanical Division for the Engineering Districts and other Divisions of the Department.

Major types of equipment are as follows:

Trucks, 1/2 and 3/4 Tons	243
Trucks, 3 Tons	201
Trucks, Miscellaneous	136
Motor Graders	174
Wheeled Tractors	281
Loaders	63
Rollers	196
Sand Spreaders	215

The following types of specialized equipment are also included in the fleet:

Asphalt Distributors	52
Tar Kettles	85
Asphalt Mixers	16
Sweepers	40
Centre Line Markers	7
Gravel Crushers	2
Cabooses	86
Diamond Drill	1
Swathers	25
Brush Cutters	5

Major repair facilities are located at:

Beausejour
Brandon
Dauphin
The Pas
Thompson
Winnipeg

Satellite shops are located at Boissevain and Swan River.

The fleet operates on a charge back system to the users, by means of rental rates based upon experienced costs for operating, fuels, parts, shop time, depreciation and overhead.

Equipment is replaced with funds provided by annual depreciation. Equipment is tendered by the Central Government Purchasing Branch based upon specifications set by the Mechanical Division.

Other services provided by the Mechanical Division are as follows:

Sign Shop

The sign requirements for the Department are produced in the Sign Shop located at Dauphin. Silk screening and legend applications are used to mass produce signs to meet anticipated requirements.

The total value of signs produced during the year amounted to $614,575 with year end inventory valued at $396,301.

Warehouse Stores

Warehouse operations are located at major locations to supply fuel, repair parts and other supplies for the Engineering Districts.

Approximately 7,000 line items are carried in the stores system with a year end inventory value of $2,355,930.

A computerized Stores inventory system is currently being implemented to provide inventory, stock data, order points, specifications, requisitions, billings and supplier payments.

A software package was purchased and is presently being converted to meet our requirements.

Safety Program

The Safety Co-ordinator held safety meetings in all major shop locations for Mechanical Division and District personnel.

There were no fatal workplace accidents during the year.

Operator Training Program

Two full time operator trainers are employed to conduct training sessions, both individualy and by classroom instruction.

45 employees attended grader schools in Dauphin and Beausejour.

Approximately 125 employees participated in the training schools to upgrade driver licences to Class III or Class I.

Mechanical Services

In addition to service provided to our own fleet the mechanical shops co-ordinated repairs, servicing and replacement of units for the Department of Government Services.

Buildings

Heated snowplow storage buildings were erected at Rorketon, Sandy Lake and Bissett in the district maintenance yards.

An expansion to the Thompson shop was completed. This expansion was for new offices and stock room storage facilities, allowing previous areas to be converted to Mechanical repair stalls.

An expansion of the Midland Street Administration offices was completed to place the Mechanical Inspector, 2 Operator Trainers and the Safety Co-ordinator in one location.

Upgrading of the lighting in the grader section of the Winnipeg shop was completed.

The design, tendering and purchasing of a new hangar for the Air Division at Thompson was commenced. This project will be completed in the next year.

Highways Air Ambulance based in Winnipeg

AIR SERVICES

The major functions of Air Services are to transport personnel, to suppress forest fires by water bombing, to supply air support to field parties and to transport freight as requested by the Departments and Agencies of the Government. Aircraft and services are also provided for the Northern Patient Transportation Program.

Aircraft are stationed at three main bases in Winnipeg, Lac du Bonnet and Thompson. Summer bases are operated at The Pas and Norway House.

To overhaul and maintain the aircraft fleet, the Air Division operates a maintenance depot at Lac du Bonnet where major overhauls and repair work on single engine aircraft including water bombers is carried out. Aircraft are regularly called in to receive complete airframe overhaul, inspections, modifications, engine changes and refinishing as well as condition and conformity and airworthiness renewals. Routine service and maintenance is carried out at all bases. Inspection, engine change and routine maintenance on multi-engine aircraft is carried out at Winnipeg and Thompson.

Flights during the year totalled 1,000,835 miles, an increase of 56,925 miles from the previous year. Major forest fire activity was concentrated north of the 53rd parallel, resulting in both CL215 water bombers operating from bases at The Pas, Lynn Lake and Thompson for extended periods.

Flights were well distributed between the Departments. Forest Protection and other resource related programs accounted for 27% of the Air Division flight miles, with a total of 266,850 miles. The Northern Patient Transportation Program used 19% of the flight miles for a total of 193,460. The Department of Highways and Transportation was the third largest user with 12% of flight miles and a total of 119,665.

Administration

The administration componets of Air Services are located at Winnipeg and Lac du Bonnet. Flight operations are managed from Winnipeg. Maintenance supervision for all bases is supplied from the Lac du Bonnet maintenance and overhaul facility.

Flight Co-ordination

Flight co-ordination staff at bases in Winnipeg and Thompson arrange air charters for Government Departments, using either Government or commercial aircraft. Flight requests are co-ordinated to provide the most economical method of travel.

Aircraft

The fleet of aircraft operated by Air Services consisted of the following:

1 - DHC-2 Beaver
5 - DHC-2 MK III Turbo Beaver
2 - DHC-3 Otter
1 - Cessna 180 (sold by tender in October)
1 - Cessna 337
1 - Piper Aztec
2 - Canadair CL-215
1 - Mitsubishi MU-2-J (lease purchase)
1 - Cessna Citation

To meet the demand of the Northern Patient Transportation Program and northern flying under instrument flight rules, one Piper Aztec was retained on lease.

The MU-2 aircraft was involved in an accident in January and was unserviceable for the balance of the year. A Cessna Citation Jet aircraft was purchased as a replacement.

At March 31, 1982, the Province of Manitoba Air Services had flown a total of 25,328,035 miles since its inception in 1932.

SUMMARY OF AIR SERVICES FLIGHT MILEAGE

Department or Agency	1980-1931	1981-1982
Agriculture	11,515	16,135
Attorney General	90,310	80,030
Community Services & Corrections	51,555	64,865
Consumer & Corporate Affairs & Environment	13,065	18,225
Community Economic Development Fund	3,400	9,210
Co-Operative Development	270	
Cultural Affairs & Historical Resources	300	3,340
Economic Development & Tourism	4,775	6,015
Education	13,935	27,520
Energy & Mines	14,155	17,050
Executive Council	2,480	7,405
Finance	840	2,160
Fitness, Recreation & Sport	8,595	12,950
Government Services	10,895	4,330
Health	670	2,075
Highways & Transportation	142,405	119,665
Labour & Manpower	16,500	25,870
Manitoba Hydro	23,320	29,950
Manitoba Telephone System	16,135	24,030
Man-For	2,005	790
Manitoba Housing & Renewal Corporation	2,480	625
Municipal Affairs	2,910	2,735
Natural Resources	292,065	266,850
Northern Affairs	77,740	64,465
Northern Patient Transportation Program	138,745	193,460
Manitoba Health Services Commission	980	
Miscellaneous		735
TOTAL PROVINCIAL DEPARTMENT & AGENCIES	942,045	1,000,485
TOTAL FEDERAL DEPARTMENTS	1,865	350
TOTAL MILES FLOWN	943,910	1,000,835

MILEAGES FLOWN BY BASES

Agency or Department	Bases					Totals
	Lac Du Bonnet	The Pas	Thompson	Winnipeg	Norway House	
Agriculture	195		3,190	12,750		16,135
Attorney General	9,035		62,660	8,335		80,030
Community Economic Development Fund			3,940	5,270		9,210
Community Services & Corrections	125		55,955	8,785		64,865
Consumer-Corporate Affairs & Environment	2,420	320	13,325	2,160		18,225
Co-Operative Development				3,340		3,340
Cultural Affairs & Historic			1,565	4,450		6,015
Economic Deveopment & Tourism				3,920		27,520
Education	610	475	22,515			
Energy & Mines	150		2,540	14,360		17,050
Executive Council				7,405		7,405
Finance	110		800	1,250		2,160
Fitness Recreation & Sport			10,620	2,330		12,950
Government Services			1,730	2,600		4,330
Health	310		115	1,650		2,075
Highways & Tranportation	8,495	680	57,910	51,560	1,020	119,665
Labour & Manpower	305		12,335	13,230		25,870
Hydro			29,950			29,950
Manitoba Telephone System	12,800		9,695	1,535		24,030

MILEAGES FLOWN BY BASES

Agency or Department	Bases					
	Lac Du Bonnet	The Pas	Thompson	Winnipeg	Norway House	Totals
Man-For			790			790
Municipal Affairs	860		1,120	755		2,735
Natural Resources	39,405	24,340	66,360	120,000	16,745	266,850
Northern Affairs	3,415		30,390	30,660		64,465
Northern Patient Transportation Program	540	160	18,135	174,565	60	193,460
Manitoba Housing & Renewal Corporation				625		625
Miscellanous		495		240		735
Federal				350		350
	78,775	26,470	405,640	472,125	17,825	1,000,835

RADIO SERVICES

Radio Services continued to plan, purchase, licence, install and maintain radio equipment for the Manitoba Government. In an effort to establish a 10 year radio plan, the government established a Radio Steering Committee with operating and needs sub committees. These Committees screened radio requirements while a consultant's group prepared a report.

Radio requirements of most Departments were largely postponed pending the formulation of the radio plan. The installation of new radio equipment was reduced considerably. Year end orders for essential radio equipment were placed and substantial installation program for 1982-83 was established.

The Radio area covered was increased for the Departments of Highways and Transportation, and Natural Resources. The amount of radio equipment installed also increased. The Department of Community Services and Corrections was assisted with radio problems at The Pas, Portage la Prairie and Headingley. An order was placed for new technology synthesized radio equipment having dual radio and mobile telephone capability. The Northern Affairs group was assisted with radio installations for community constables and fire protection purposes.

The solar powered radio repeater performed without failure for the second year. Experiments in telephone to radio interface were carried out in the Winnipeg Radio Shop with some success.

The extensive radio navigation beacon system was maintained and continued to operate consistently 24 hours a day, 7 days a week, with few failures.

A modernization plan to comply with the Federal Government's 25 KH_z channel spacing was established for the northern airstrips and some new radio equipment was ordered.

A plan to upgrade the existing Department of Highways and Transportation radio equipment was adopted for commencement next year. A decision on new radio equipment for Highways and Transportation in northern Manitoba was postponed until completion of the radio plan.

A development with much potential is the wide spectrum V.H.F. (F.M.) radio capable of also working as a mobile telephone.

The requirement for tube type radio euipment has disappeared and this equipment has also been rejected by the technical schools as unsuitable for training technicians. Seventy-five of these radios will be written off together with another twenty-five related units.

Plans were made to add junior technical staff and the latest radio testing equipment was successfully integrated into the Winnipeg Radio Shop.

MOTOR VEHICLE BRANCH

The Motor Vehicle Branch is responsible for the administration of driver licencing and motor vehicle registrations programs, as well as driver and vehicle related programs concerned with maintaining and improving highway safety.

The basic objective of the Driver Licencing Program is to establish and maintain procedures for issuing of driver licences at Motor Vehicle Branch Offices, by mobile driver examiners and by authorized driver licencing agents in accordance with the provisions of the Highway Traffic Act, regulations and government policy.

> Total active drivers in Manitoba in 1981 numbered 572,095. Total suspended drivers numbered 19,864.

The Vehicle Registration Program establishes and maintains systems and procedures designed to register and licence motor vehicles, trailers and snowmobiles in accordance with the Highway Traffic Act and related acts and regulations.

> Vehicle registrations in 1981 totalled 736,232, commercial vehicle registrations 22,095 and snowmobile registrations 40,702.

The primary responsibility of the Driver Testing Section is to examine applicants to determine whether they have the necessary knowledge, skill, physical and mental abilities to safely operate a motor vehicle.

> In 1981, 44,000 road tests in the Original Testing program and an additional 5,166 road tests as part of the Branch's Driver Improvement Program were administered. Written and oral knowledge tests administered in both programs numbered 128,072.

The Driver Education Section administers a program of High School Driver Education and controls the practices and policies of commercial driving schools and instructors. In addition to the regular courses offered to high school students, the Driver Education Program provides annual courses for students attending the Manitoba School for the Deaf and instruction for students whose physical handicaps require the installation of special vehicle controls. A pilot program was initiated at the Dauphin Comprehensive Secondary School, in which students fifteen and one-half years of age who are enrolled in a high school driver education course are permitted to obtain an instruction permit.

A total of 227 instructors conducted courses in 103 schools throughtout the Province. A total of 4,853 high school students completed the course.

The Manitoba Bicycle Operator's Training Program and the Manitoba Bicycle Safety Program is the responsibility of the Snowmobile Safety Section. The Section administers the Snowmobile Act and those sections of the Highway Traffic Act pertaining to the use of bicycles and mopeds, and consequently reviews traffic accident reports falling within these categories.

The snowmobile training program based on the Canada Safety Council's safe bicycling course is designed to teach children ages six to thirteen how to properly drive a bicycle and at the same time to provide them with the knowledge to recognize and avoid hazardous traffic conditions.

6,004 individuals completed the Snowmobile Training Course. Decreases of 19% in total snowmobile accidents and 23.6% of injury accidents were recorded.

The Bicycle Safety Program instructed 54,647 individuals in proper and safe cycling principles.

The maintenance of driving records of Manitoba drivers is an operation which involves not only the compilation of driving infractions but also monitoring subsequently suspect records. This function is performed by the Driver Records and Suspensions Section.

The primary function of the Driver Improvement and Control Program is to provide rehabilitation and in more severe cases impose suspension in order to remove hazardous drivers from the roads. The program is progressive and individuals are provided with many opportunities for rehabilitation.

In 1981, 4,792 show cause hearings were conducted. Of this total, 2,441 drivers were suspended, and 2,295 placed on probation.

A total of 23,173 licence suspensions were imposed.

The basic objective of the Medical Section is to establish a system for the review of a driver's fitness to safely operate a motor vehicle.

A total of 27,321 requests for medical examination were issued. Of this number, 873 medical suspensions resulted.

The Motor Vehicle Inspection Section serves to carry out the mechanical safety inspection of vehicles in accordance with standards prescribed; to hold surveillance over the safety standards of components and accessories sold for use on registered vehicles; and to support other divisions and departments within the Government respecting related areas of vehicle involvement.

- A total of 42,261 vehicles were initially inspected in 1981. Of these 17,998 passed inspection on the first attempt, 23,584 failed, and 679 were of such hazardous condition that immediate suspension of registration resulted.
- Compulsory inspection of passenger cars/light trucks and heavy duty vehicles totalled 38,407 in 1981.

The Dealer Section is responsible for the development and administration of a program regarding licencing and control of automobile dealers, salesmen and automobile wreckers in accordance with the Highway Traffic Act, Regulations and departmental policy.

- In 1981, 3,161 plate dispositions and 1,508 permit dispositions were issued.

The Administrative Services Section, in addition to providing a series of administrative functions within the Motor Vehicle Branch, is responsible for the operation of an Information Centre. The Centre maintains an information retrieval system which provides information on vehicle registrations and driver's licences.

The Financial Services Section collects, accounts for and distributes all Government revenues associated with the licencing and insuring of drivers, and of privately owned and commercial vehicles. It dispurses and accounts for all expenditurs incurred for the purpose of budgetary planning, and submits revenue and expenditure analysis reports to management on a regular basis. The Section maintains a financial support function to 11 programs within the Motor Vehicle Branch, seven Branch Offices, and in excess of 225 driver Licence Agents.

Motor Vehicle Accidents numbered 37,572 in 1981, with a total of 168 fatal accidents resulting in the loss of 198 lives. Snowmobile accidents numbered 68, and involved five fatal accidents, while a total of 271 bicycle accidents involved eight fatal accidents.

THE HIGHWAY TRAFFIC BOARD

Established in 1960, the traffic board is responsible for administration of The Highways Protection Act and portions of the Highway Traffic and Snowmobile Acts. This includes the following:

1. Designating highways as Limited Access Highways.
2. Establishing controlled areas adjacent to Limited Access Highways.
3. Issuing permits for structures in controlled areas and access onto Limited Access Highways.
4. Establishing speed limits.
5. Approving traffic control devices.
6. Approving pedestrian corridors.
7. Approving municipal by-laws respecting speed limits, highway reclassifications, weight limits and bridge restrictions.
8. Establishing locations where snowmobiles may be operated on or across roadways.

Board Members are appointed by the Lieutenant-Governor-in-Council. The Staff consists of a Board Secretary, two administrative secretaries and two clerical positions.

Traffic Board hearings are usually held in Winnipeg, Dauphin and Brandon but occasionally are scheduled for other loctaions when required.

The Highways Protection Act

The Comparative Summary included with this report indicates 355 permits issued. The permits involve approval of 312 structures in controlled areas and 104 access driveways, as well as 32 access driveway relocations, 29 access driveway modifications and 4 access driveway removals.

This Statute has not been converted to metric as yet. When it is, the board will also convert its existing controlled area regulations to correspond. In the event that additional lands would be affected by the regulations in metric measurements, the Statute requires that the board must first hold public hearings.

Many advertising signs continue to be placed without board permits in the controlled areas next to highways. Since many of these signs are in conflict with the objects of the Statute and board permit policies, they are causing difficulty in the administration of the Act. While enforcement provisions are already provided, the board is of the opinion that more specific legislation and regulation for signs is required.

The Highway Traffic Act

Construction improvements on Provincial Road No. 391 were completed this year and the board extended the 100 km/h speed limit for the whole of this highway between Thompson and Provincial Trunk Highway No. 10, excluding any restricted area or modified zone.

The board has initiated a review of existing warrants and guidelines for the establishment of pedestrian corridors. With board approval the City of Winnipeg is experimenting with the use of flashing amber lights at some pedestrian corridors. The review and experiment could result in changes for pedestrian corridor regulations.

A consolidation of speed limit regulations has been completed and filed as Manitoba Regulation No. 130/81. The last consolidated was in 1977.

The first consolidation of Traffic Control Devices regulations is still underway and may be completed next year.

Traffic Board Activities Comparative Summary

Applications	1977	1978	1979	1980	1981
Structure & Access	548	655	492	412	463
Speed Limits	96	142	70	48	54
Pedestrian Corridors	8	7	5	8	9
Miscellaneous (Traffic Control Devices - Weight Limits - Limited Access Designations & Controlled Areas, Etc.)	17	9	15	4	5
	669	813	582	472	531
Hearings Held					
Winnipeg	54	40	35	31	34
Other Locations	25	34	24	24	22
	80	74	59	55	56
Permits Issued					
Structures & Access Driveways	403	470	409	366	355
Regulations Filed					
Speed Limits and Miscellaneous	11	21	20	12	9

Note: This report is for the Calendar Year 1981

THE MOTOR TRANSPORT BOARD

The Motor Transport Board, as required by The Highway Traffic Act, is composed of members appointed by the Lieutenant-Governor-In-Council, as follows:

Mr. J.S. Kinley	Chairman
Mr. R.R. Ramsay	Vice Chairman
Mr. E. Lansky	Vice Chairman
Mr. W. Francis	Member
Mr. H.R. Mitchell	Member
Mr. A. Sabeski	Member
Mr. D.B. Smith	Member
Mr. J. Chanel	Member

The Board is continuing with its internal re-organization to streamline its operation and procedure to meet the mandate as set out in Part VIII of The Highway Traffic Act, The Motor Vehicle Transport Act (Canada), and The Public Utilities Board Act. The duties of the board are to deal with public service vehicles and commercial trucks in relationship to the public, the railways, and to one another.

The Board:

(a) hears applications made by motor carriers seeking entry into the public service section of transportation.

(b) revises the provincial Standard Tariff of Tolls including the rules of carriage, from time to time. No fee or toll may be charged by a carrier except in accordance with the tariff as set.

(c) holds Show Cause Hearings.

(d) assists carriers, shippers and the public with enquiries respecting the Board's regulations and interpretations of the Acts applicable to the Board.

(e) investigates complaints.

(f) maintains insurance files respecting public liability and property damage, cargo and fidelity bond policies for protection of the general public and shippers using public service vehicle carriers' transportation service.

(g) holds joint public hearings with other provincial transport boards, both in our jurisdiction and any other provinces of Canada.

(h) administers the Board functions.

The Board participated in four (4) Joint Hearings with other provincial jurisdictions to hear concurrently the evidence of applications made by extra-provincial public service vehicle carriers. Two Joint Hearings were held in Red Deer, Alberta with representation from the Alberta, SAskatchewan and Manitoba Boards. Another Joint Hearing was held in The Pas, Manitoba with the Provinces of Saskatchewan and Manitoba and one was held in the City of Winnipeg with representation from the Ontario and Mantioba Boards.

During the Licence Year, the Board held 150 public hearings requiring 196 days of sittings to hear the applicants and respondents respecting the applications for public service vehicle authority. The applicant attempts to prove through witnesses that the existing transportation service is insufficient or that the public will be further convenienced by approval of their application.

During the License Year the Board introduced a modified administrative process with the introduction of General Board Meetings. The Board held 25 General Board Meetings to deal with:

(a) consideration of applications for public service vehicle authority that are uncontested.

(b) preparation of public service applications for gazetting purposes.

(c) extension and issue of tempory authorities.

(d) acceptance of filed rates, amendments to existing applications and withdrawal of applications.

(e) review of opposition filed against applications.

(f) compliance reports, revenue summaries and assignments.

(g) review of general administration actions.

Combining the Public Hearings and the General Board Meetings during the year, the Board held a total of 175 Hearings requiring 221 sitting days to deal with the applications. The Hearings consisted of 440 applications which were disposed of as follows:

Approved	327
Denied	28
Withdrawn	52
Cancelled	12
Postponed	1
Dismissed	2
Joint Hearings	4
Pending	1
Show Cause	13
	440

Included in the 440 applications were 153 federal carrier applications seeking extra-provincial operating authority. The Board, in its capacity as a Provincial Transport Board under the Motor Vehicle Transport Act (Canada) disposed of the applications as follows:

Approved	118
Denied	4
Withdrawn	23
Cancelled	7
Postponed	0
Dismissed	1
	153

The Board held public hearings to consider amendments and increases to the Standard Tariff of Tolls governing the movement of freight within the Province.

The Board is continuing to play an active role in the Canadian Conference of Motor Transport Administrators. The group is seeking to develop uniform practices, procedures and policies relating to the regulation of inter-provincial motor carriers across Canada.

Inspection Report

The following is a summary of the activities of the two Inspectors reporting directly to the Motor Transport Board.

The Board's Inspectors investigated and concluded 219 filed complaints that were submitted to the Board by:

(a) shippers, (b) consignees, (c) carriers,
(d) public in general.

It should be noted that the bulk of the prosecutions and truck inspection reports, arising out of Part VIII of The Highway Traffic Act and The Motor Vehicle Transport Act (Canada), are initiated by the Traffic Inspection Section of the Department of Highways and Transportation. The Board has continued to retain its close working relationship with the Inspection Division.

Revenue Comparison

The following is a revenue comparision of fees collected by the Motor Vehicle Branch, for licencing Public Service Vehicle trucks, buses, commercial trucks and liveries that are regulated and supervised by the Motor Transport Board.

Revenue Comparision In Dollars

The Highway Traffic Act	1980/81	1981/82	Increase or Decrease
P.S.V. Freight Trucks Trailers	4,176,692.00	3,139,406.00	-1,037,286.00
P.S.V. Passenger Buses	61,933.00	62,341.00	+408.00
Commercial Trucks Trailers	2,935,132.00	2,815,670.00	-119,462.00
Inter-Municipal Liveries	30,431.00	31,028.00	+597.00
Miscellaneous	624,999.00	733,097.00	+108,098.00
	7,829,187.00	6,781,542.00	-1,026,927.00

Miscellaneous revenue referred to above is further broken down as follows:

Single Trip Permits	$ 580,563	
Transit and Breakdown Permits	$ 6,884	
Limited Permits	$ 6,512	
Plate & Sticker Replacements	$ 1,914	
Canadian Agreement on Vehicle Registration Fees	$ 82,817	
Motor Transport Board Filing and Hearing Fees and Costs	$ 54,407	
		$ 733,097

	Revenue ($)	
P.S.V. Trucks, Trailers, Driveaway-Manitoba Based	2,004,061	
Weight Increases	28,673	
Change of Vehicle	8,951	
P.S.V. Trucks, Out-of-Province Bases	1,097,721	
		3,139,406
P.S.V. Passenger Buses, Manitoba Based	33,047	
Change of Vehicle	197	
P.S.V. Passenger Buses, Out-of-Province Bases	29,097	
		62,341
Commercial Trucks, Trailers, Driveaways, Manitoba Bases	2,579,008	
Weight Increases	18,013	
Change of Vehicle	14,986	
Commercial Trucks, Out-of-Province Bases	203,663	
		2,815,670
Liveries		
Country	9,061	
Change of Vehicle	137	9,198
City	21,208	
Change of Vehicle	622	
		21,830.00

Comparative Statement of Vehicles Registered

Vehicles Base-Plated in Manitoba	1980/81	1981/82
Public Service Vehicle Trucks	2,106	2,520
Public Service Vehicle Quarterly	763	304
Public Service Vehicle Trailers	6	9
Public Service Vehicle Driveaways	74	87
Commercial Trucks	13,298	14,544
Commercial Trucks Quarterly	664	694
Commercial Trailers	626	687
Commercial Driveaways	32	25
Passenger Buses	358	148
Inter-Municipal Liveries	667	662
	18,594	19,680

Vehicles Registered under Canadian Agreement on Vehicle Registration

Manitoba Based	1,977
Out-of-Province Based	5,821
	7,798

The Board on October 15, 1980 implemented a series of fees chargeable for filing applications, hearing applications, respondent filings and disciplinary action.

Fee Revenue

March 1, 1981 to February 28, 1982

Application Fees	$15,125.00
Respondent Fees	9,850.00
Hearing Fees	14,650.00
Disciplinary Action	12,120.00
	$51,745.00

This Report is for the Licence Year March 1, 1981 to February 28, 1982.

LICENCE SUSPENSION APPEAL BOARD

The Licence Suspension Appeal Board was first established by an Act of the Legislature in 1959 and presently operates under Sections 252 & 253 of the Highway Traffic Act. The purpose of this quasi-judicial Board is to consider applications primarily for remissions of suspensions of licences. It is also an appeal body for denials to issue permits and for special licences such as for Driving Schools. The Board does not have jurisdiction over suspensions for medical reasons, non-payment of fines, or non-payment of licence fees. It has limited jurisdiction over Court Suspensions imposed under the Juvenile Delinquent Act when such authority is delegated by that Court. Most applications received by the Appeal Board relate to suspensions of licences for alcohol related convictions, or suspensions imposed by the Registrar of Motor Vehicles for poor driving records.

Remissions of suspension authorized by the Appeal Board are usually on a restricted basis, and are remitted only to the extent of removing "exceptional hardship". Persons denied remission of suspension have the statutory right of further and final appeal to the County Court.

The Board consists of a Chairman, Vice-Chairman, and eight Members. Presently, there are members of the Board who reside in LaBroquerie, Ninette, Dauphin and Thompson. The Board Members from the areas outside of Winnipeg conduct "single member" hearings at points outside of Winnipeg, and submit their findings and recommendations to the full Board for decision.

The Board has regularly scheduled hearings in Winnipeg, Brandon, Dauphin, The Pas, Thompson, Steinbach and Beausejour.

While half-day hearings of the Board usually deal with 12 applications, at hearings outside of Winnipeg, it is the practice to increase this number to handle all outstanding applications in the area. Hearings in Dauphin and Brandon are held on consecutive days as are hearings in Thompson and The Pas. Steinbach and Beausejour hearings are held when there are no other rural hearings in that week to facilitate staff travel.

In 1980 the Board experienced the first and only reduction in the number of applications received compared to previous years with a 13 per cent reduction. The 1981 experience shows an increase of 7.8 per cent over 1980 with a total of 3,991 applications being received. Of this total some are in the pending or cancelled categories.

Regularly scheduled hearings were as follows:

Winnipeg		
Weekly - Tuesdays	-	Morning & Afternoon
- Thursdays	-	Morning & Afternoon
- Wednesdays	-	Afternoon & Evenings (as required)
Brandon		
Bi-weekly - Wednesdays	-	Evenings (as required)
- Thursdays	-	Morning & Afternoon
Dauphin		
Bi-weekly - Wednesdays	-	Morning & Afternoon (as required)
Steinbach		
Monthly - Wednesdays	-	Morning & Afternoon (as required)
Beausejour		
Monthly - Wednesdays	-	Morning & Afternoon (as required)
Thompson		
Monthly - Thursdays	-	Morning & Afternoon (as required)
The Pas		
Monthly - Wednesdays	-	Morning & Afternoon (as required)

Description of Suspensions

(1) Section 238 Highway Traffic Act - Statutory suspension imposed automatically for conviction of a Criminal Code of Canada offence.

(2) Section 246 Highway Traffic Act - Suspension imposed by the Registrar of Motor Vehicles on review of driving records.

(3) Sections 238 Highway Traffic Act & 246 Highway Traffic Act - Combination of above two convictions.

(4) Court Suspension (Highway Traffic Act) - Suspension imposed by Court for Highway Traffic Act convictions.

(5) Probationary Licence - 23-13 Highway Traffic Act - Suspension imposed by the Registrar of Motor Vehicles arbitrarily on probationary drivers for accidents or convictions.

(6) Refusal to issue by Registrar - Refusal to issue Salesman's Permit, Driving School Permit, Driving Instructor's Permit by Registrar.

The Licence Suspension Appeal Board

Total Applications Received - 3,991
Total Hearings Held - All Locations - 337
Disposition of applications by type of suspension:

(1)	Section 238 Highway Traffic Act		
	Restricted remission	1,714	
	Full remission	209	
	Application denied	805	
	Sub Total		2,728
(2)	Section 246 Highway Traffic Act		
	Restricted remission	338	
	Full remisssion	1	
	Application denied	308	
	Sub Total		647
(3)	Section 238 & 246 Highway Traffic Act		
	Restricted remission	1	
	Full remission	1	
	Application denied	0	
	Sub Total		2
(4)	Court Suspension Highway Traffic Act		
	Restricted remission	14	
	Full remission	10	
	Application denied	0	
	Sub Total		24
(5)	Probationary Licence Suspension		
	Restricted remission	33	
	Full remission	0	
	Application denied	48	
	Sub Total		81
(6)	Out of Province Suspensions		
	Restricted remission	2	
	Application denied	5	
	Sub Total		7
(7)	Refusal to issue by Registrar	0	0
	Applications pending	139	
	Applications cancelled	295	
	Suspension expired	68	
	Sub Total		502
	TOTAL		3,991

APPEAL BOARD STATISTICS

Hearings Held & By Location

Month	Applications Received	Temporary Licences Issued	Hearing Locations						Total Hearings
			Winnipeg	Brandon	Dauphin	Steinbach	Thompson	The Pas	
January	316	39	16	3	2	4	1	2	28
February	302	30	16	3	2	2	-	-	23
March	401	33	18	4	2	2	1	1	28
April	361	28	23	5	3	2	1	1	35
May	356	22	21	3	2	3	1	2	32
June	396	26	23	2	2	2	-	-	29
July	293	34	18	4	2	2	1	1	28
August	269	34	16	4	2	2	-	-	24
September	312	39	18	6	3	2	1	1	31
October	350	29	18	3	2	2	1	1	27
November	349	29	15	4	2	2	-	-	23
December	286	29	20	3	2	2	1	1	29
TOTALS	3,991	372	222	44	26	27	9	10	337
Percent Change Over 1980	+7.8%	+10%	+3.7%	-15%	-6%	-18%	+30%	+10%	

Application Volume and Hearings Comparison 1978 to 1981 Inclusive

Month	Applications Received				Total Hearings Held			
	1978	1979	1980	1981	1978	1979	1980	1981
January	309	353	277	316	27	30	31	28
February	301	310	326	302	20	34	26	23
March	315	431	288	401	22	38	31	28
April	306	343	324	361	18	27	27	35
May	400	435	318	356	23	43	30	32
June	355	371	314	396	21	36	27	29
July	300	337	309	293	19	31	27	28
August	358	347	287	269	36	34	26	24
September	335	347	348	312	50	24	26	31
October	413	383	341	350	28	33	33	27
November	375	339	305	349	44	34	25	23
December	285	255	253	286	31	24	31	29
TOTALS	4,052	4,251	3,700	3,991	339	388	340	337

Applications Processed and Hearing Locations - 1981

Location	No. of Hearings Held	No. of Applications Processed
Winnipeg	222	2,356
Brandon	44	464
Dauphin	26	227
Steinbach	27	266
Thompson	8	78
The Pas	10	98
TOTALS	337	3,489

Applictions as of December 31, 1981 that were Adjourned - Pending & Cancelled 502

The Taxicab Board

The Taxicab Board, created by the Taxicab Act, is composed of:

(a) a member of the Council of the City of Winnipeg, nominated by the Council;

(b) the Chief Constable of the Police Force of the City of Winnipeg;

(c) three other persons appointed by the Lieutenant-Governor-In-Council.

The Taxicab Board held eleven public hearings during the year.

The number of Taxicabs authorized to operate in the City of Winnipeg remained at four hundred, the same as in the previous year.

The Taxicab Board authorized eighteen additional vehicles to be used for weddings, funerals, V.I.P. and sightseeing tours, including limousine service from the Winnipeg International Airport to downtown hotels.

For many years, the practice of the Taxicab Board has been to allow licenced Taxicab Operators to put on temporary, extra taxicabs during the period between December 1 and February 28. There were forty-six additional taxicabs operating during that period.

Three hundred and ninety-six of the four hundred taxicabs or 99% are equipped with two-way radios.

The Taxicab Board heard eleven reports from its Inspectors. The Taxicab Inspectors made one thousand, eight hundred and thirteen individual inspections of taxicab meters a decrease of two hundred and thirty-six from the previous year.

A total of thirty-nine applications for Taxicab Driver Licences were rejected as the applicants either lacked sufficient knowledge of the City of Winnipeg, were on probation at the Safety Division, had insufficient driving ability or otherwise failed to meet the Board's requirements for a Taxicab Driver.

A total of two thousand, one hundred and forty-three Taxicab Driver Licences were issued.

Due to changes to The Highway Traffic Act, the Taxicab Board is no longer issuing licence plates. Taxicab and U-Drive licence plates are now being issued by the Motor Vehicle Branch. The Taxicab Board is continuing to issue Taxicab Driver Licences, Taxicab Business Licences and Drive Yourself Booking Office Licences.

Summary of Revenues:

Taxi and U-Drive Licence plates	$116,698.00	
Change of Vehicles	4,281.00	$120,979.00
Taxicab & U-Drive Business Licences		
Taxicab Drivers Licence	2,453.00	2,453.00
		$123,432.00

Summary of Licences Issued:

	80/81	81/82
To operate a Taxicab Business	210	169
To operate a Taxicab	400	400
To opeate a Taxicab Temporarily under permit	49	46
Drive Yourself Business Licence	106	83

Note: This Report is for the Licence Year March 1, 1981 to February 28, 1982.

TRANSPORTATION ECONOMICS

The Transportation Division has the responsibility for transportation policy, research, planning, and coordination within the Province of Manitoba. The Division handles responsible for federal and inter-provincial liason in this area and provides advice, coordination and support to provincial government departments and agencies on transportation questions. Specific activities within the component branches are described in the following report.

Freight and Passenger Policy

These branches are concerned with providing information in connection with rail, truck, marine, ports, air, bus, automobile transportation in the following areas:

1. Advice on transportation policies and programs
2. Appeals to the federal Government on Canadian Transport Commission decisions
3. Assessment of the effect of federal policies and research on Manitoba
4. Briefing notes, background reports and presentations on transportation policy matters
5. Coordination between provincial departments
6. Formulation of position papers
7. Identification of existing and future problems in transportation
8. Interpretation of federal legislation and policies
9. Interventions before the Canadian Transport Commission on behalf of Manitoba
10. Liaison with municipalities, companies and individuals as to their transportation needs and concerns
11. Monitoring fares and services charged by transport operators
12. Negotiations with railway companies on freight rates
13. Participation in joint research projects with other agencies

In the area of freight transportation, staff continued to be actively involved in a variety of grain transporation matters including:

- Assistance to communities served by the Winnipegosis, Inwood and Erwood railway subdivisions in preparing for abandonment hearings.
- Pursuing commitments from the federal government to provide rail cars for the movement of grain.
- Seeking increased funding for, and extension of, the branch line rehabilation program.

- Promoting increased use of the Port of Churchill for grain exports and encouraging upgrading of the rail line, improvement to port facilities, extension of the season of navigation and soliciting a permanent rail car interchange agreement between CN and CP.
- Analysis of grain costing and related statutory grain rate studies.

Support was provided to the Motor Transport Board on regulation, compliance and carrier economic questions. Manitoba is chairing an intergovernmental committee to refine the regulatory process to ensure greater uniformity in the treatment of highway carriers across Canada.

Response to federal activities included:

- Analysing of proposed ports legislation and soliciting changes to allow for provincial participation in the port decision making process.
- Obtaining federal agreement to give abandoned rail rights-of-way to the province.
- Seeking amendments to the Arctic Marine Services Policy to include improvements to the Port of Churchill and extension to the season of navigation over the Hudson Bay Route.
- Promoting changes to the National Transportation Act to obtain effective redress from disciminatory freight rate structures.
- Participating in a joint federal provincial study of development needs of the Port of Vancouver and rail lines to the port to meet projected traffic demands.

In the passenger transportation area, the branch prepared responses to several major changes by the Federal Government.

- Changes to Canada's domestic air policy which affects domestic main line, regional and local air carriers in Canada.
- Major changes and cuts to VIA Rail passenger services made by federal Order-in-Council.
- Changes proposed in the management of the larger airports which would tend to impose increased costs on provincial and municipal governments.

The federal government has the authority to regulate air and rail carriers. Interventions presenting Manitoba's position were made to the Canadian Transport Commission on a wide variety of items such as:

- retention of Northern Rail passenger services between Winnipeg, Thompson and Churchill
- unit toll air services to Russell and Lac du Bonnet and Northern Manitoba

- The Air Transport Committee decision authorizing NWT Air to fly non-stop between Winnipeg and Rankin Inlet was appealed because of the devastating effect which this air service could have on Churchill and on the air services offered in Northern Manitoba by local carriers.
- changes in VIA Rail scheduling of the Camper's Special rail passenger services.

Passenger fares and services of air, rail and bus modes were monitored to determine their impact on the quality of transportation:

- loading bridges were requested for PWA so that their passengers would not have to walk across the ramp during inclement weather.
- air fares from Northern Manitoba have not been equitable. As a result of initiatives taken, joint fares were instituted from Northern Manitoba to Western Canadian destinations.

Grants to Organizations

Grants are provided to agencies which promote and have made a significant contribution to the improvement of transportation services facilities or research. Grants were made to the Port Churchill Development Board, Hudson Bay Route Association, Manitoba Aviation Council, and The University of Manitoba Centre for Transportation Studies.

Technical Information and Assistance

This program provides technical information and assistance to existing and prospective industries, individuals and other government departments and agencies.

During the year the nature of enquiries changed, reflecting changing economic conditions. A total of 15 industry location projects were investigated and a number of these indicated an approach that was more tentative than that encountered in previous years. There were 78 miscellaneous requests for technical information and assistance.

Close liaison has been maintained with the Department of Economic Development and Tourism in the provision of assistance under this program.

Physical Distribution

Under this program assistance was provided to Manitoba firms to resolve problems of physical distribution (PD). This assistance encompassed a broad range of PD functions including inventory control, transportation, warehousing, order processing, customer service, protective packaging, local delivery and materials handling.

One facet of the PD program was conducted with funding from the Federal-Provincial "Enterprise Manitoba" Program supported by the Department of Economic Development and Tourism. This project provided for a series of seminars on PD workshops on specific functions such as inventory or transportation and, finally, three-day on-site consultations to identify potential savings to be derived from the application of PD techniques. These activities included: 2 seminars with 132 participants
3 workshops with 62 participants

To the end of the year there have been 111 on-site consultations which identified potential savings of $4.08 million.

The Transportation Division also sponsored a Shipper/Carrier Conference and a seminar on computers and PD. These two events drew over 300 Manitoba business people.

Airport Assistance

Construction and operation grants are provided under the Southern Manitoba and the Northern Manitoba Airport Assistance Programs. These programs have continued to be active catalysts in the expansion and upgrading of rural airport facilities.

A total of 25 airports received operations grants under the program, while 4 received construction grants. Construction grants have been used for such purposes as the extension of runways, addition of lighting, installation of fuelling facilities and construction of small shelters.

Transportation Energy Management

This program, designed to encourage energy efficiency and conservation in transportation consists of a number of ongoing projects.

Fuelsave, a cooperative program with the Manitoba Trucking Association, has had a busy year. Training material on energy efficient driving has been provided to trucking companies for their in-house training programs. A presentation on energy conservation was made to the semi-annual meeting of the Manitoba Trucking Association. Work is continuing on an energy module for the Professional Driver Improvement Course.

A regular column devoted to energy conservation in trucking is prepared for each issue of the Manitoba Highway News. This column has received a considerable amount of favourable comment.

A school contest was sponsored in grades 4, 5, and 6 for posters on the theme of "Energy Conservation in Transportation". There was a wide response and 72 entries were placed in the final judging. The overall winner was George House of Shoal Lake, Manitoba.

In October 1981, a presentation on "Future of Transportation" was given as part of the Energy Theatre presented by the Department of Energy & Mines during the "Do it Now" show at the Winnipeg Convention Centre.

The transportation Energy Management Program is carried out in close cooperation with the Department of Energy and Mines.

Transportation of the Handicapped in Rural Manitoba

In September 1981, the Department announced a program to provide grants and assistance to municipalities that have introduced transportation services for the handicapped in their areas. Grants were paid to assist existing services in Steinbach and The Pas and approved for new services in Neepawa and Selkirk. A large number of enquiries have been received and this program will see a marked increase in quality in its first full year of operations next year.

Transportation Research and Planning

This branch has responsibility for conducting research on transportation matters affecting the Province, for carrying out multimodal transportation planning and for collecting transportation information and statistics.

The Branch headed up a research group which included staff from the Departments of Agriculture and Economic Development and Tourism, to assess the implications of the federal government plan to change the statutory grain rates. Research was carried out to augment previous studies for developing an information package detailing Provincial concerns about the proposal. The information package consisted of an analysis of the impact on Manitoba agriculture, background papers on the effects on related industries, illustrated pamphlets and Ministerial letters.

In cooperation with the other provinces, Manitoba continued to provide analysis and inputs to a review of Railway Uniform Classification of Accounts and the Railway Cost Order (R6313). These instruments are used by the Canadian Transport Commission to establish the costs of railway transportation which in turn influence decisions on freight rates and subsidies.

The Research and Planning Branch prepared briefing notes and research reports used by Manitoba's representatives at the Federal-Provincial Conference on the Port of Churchill.

Research and Planning staff also carried out the following studies:

1. Estimated additional highway costs transferred to Manitoba due to rail branchline abandonment, and negotiated with federal representatives to obtain compensation for the province.

2. Represented the Department on the interdepartmental committee for the socio-economic assessment of the Alcan smelter.

3. Initiated and managed a study of the benefits to Manitoba of electrification of the main Canadian Pacific rail line between Winnipeg and Thunder Bay. The study was carried out by the Centre for Guided Ground Transportation at Queens University and the University of Manitoba with support from the jointly funded Federal/Provincial Enterprise Manitoba Program.

4. Undertook preliminary investigation of common carrier trucking regulation and its impact on Manitoba's manufacturing industry in response to concerns raised by the Canadian Manufacturer's Association.

5. Prepared a report on the capacity of eastbound transportation facilities, including the Great Lakes - St. Lawrence River system, to handle western commodity movements to central and eastern Canada and to export markets.

6. The Division identified potential problems in the third level air carrier industry and initiated a study to determine the problems being experienced by such carriers in Manitoba. The study was carried out by a consultant.